

With full portfolio of loading control and epitope tag antibodies, Abbkine launched series of conjugated antibodies, including HRP, Biotin, FITC, Cy3 and AbFluor™ dyes to meet the diversified demands of researchers. Also, the agarose and magnetic beads conjugated tag antibodies specifically for immunoprecipitation are now available.



Loading Control & Tag Antibodies

Various conjugates and high cost performance

(HRP, Biotin, FITC, Cy3, AbFluor™ dyes, Agarose, Magnetic beads)

Beratung und Vertrieb in Deutschland

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INTRODUCTION

Abbkine Scientific Co., Ltd. has been focusing on immunology and cytology research and provides products with good performance to accelerate life science development. Abbkine offers high quality products with affordable price for global life science researchers.

Abbkine is always developing innovative antibodies to meet all kinds of needs of researchers all over the world, and Abbkine insists on original manufacturing since established. Products are available from affordable research quantities to large bulk amounts for acceleration of development and production.

Loading control antibody is the basic and common used antibody in biology research, which is applied in western blot, immunohistochemistry and immunofluorescence. Epitope tag allows the detection of protein when its specific antibody is not available, so tag antibody can eliminate the need to generate a new antibody for each protein and save time, resources and money. Epitope tag antibodies are highly specific monoclonal and polyclonal antibodies, and researchers often use enzyme and fluorescence conjugates.

Abbkine provides full range of loading control and tag antibodies and has series of conjugated antibodies, covering the most needs of researchers. Abbkine antibodies are rigorously validated to guarantee the quality. Our loading control and tag antibodies are cited by many top publications and popular with researchers all over the world.

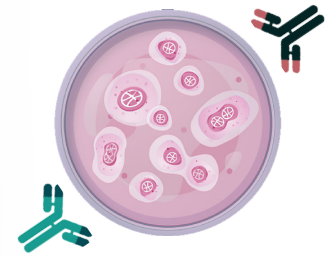
Reactivity Key

H-Human, M-Mouse, R-Rat, Mk-Monkey, C-Chicken, Y-Yeast, PI-Plant, D-Dog, In-Insect, P-Pig, Rb-Rabbit, S-Sheep

Universal loading control antibodies

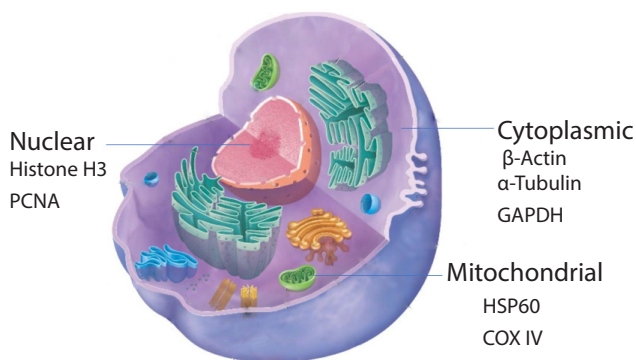
Loading control proteins are known to be constitutively and stably expressed at high levels in almost all tissues and cells, who are useful to ensure that an even amount of protein has been loaded across the gel. They also indicate the proper transfer of proteins to the membrane during the western blotting process.

Abbkine offers a comprehensive portfolio of loading control monoclonal and polyclonal antibodies with high specific and multiple applications to meet and satisfy your most types of protein quantity and localization analysis.



How to choose the right loading control?

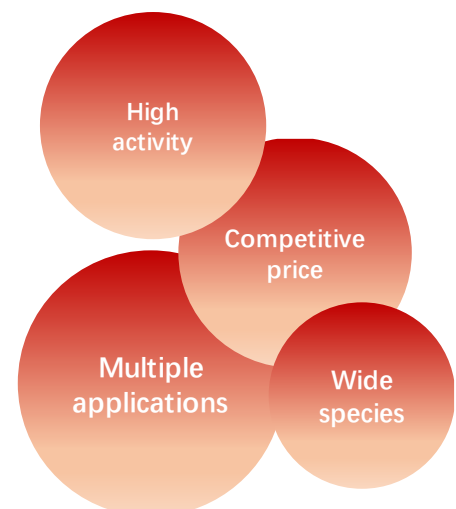
There are many kinds of loading controls, so choose the right one for your own experiment is important



- * Based on sample species. For tissues and cells of mammals, it is generally recommended to choose the proteins like β -actin, Tubulin, GAPDH, Lamin B, PCNA, Na⁺/K⁺-ATPase, etc. Plant actin and Rubisco are often used in plant samples.
- * Based on molecular weight of the target proteins. Select a loading control that has a different molecular weight with the protein of interest (>5 kDa), so that you could distinguish between the bands. For high molecular weight (>100 kDa) proteins, we recommend Vinculin as a loading control.
- * Based on the expression location of the target proteins, such as whole cell, nuclear, mitochondrial, membrane, and so on.
- * In certain conditions, the expression of loading controls will be abnormal in some cells, which should be taken into account.

Why choose Abbkine loading control antibodies?

- ✓ Abbkine offers a wide range of loading control antibodies, including the hot targets and unique species, covering the molecular weights from 15 kDa to 116 kDa.
- ✓ Abbkine conjugated loading control antibodies have diverse conjugates, including enzyme and featured fluorescent dyes, with the application of WB, IHC, IF and IP experiments.
- ✓ Abbkine loading control antibodies are verified through rigorous procedures, popular with customers for their good performance and high sensitivity.
- ✓ Different sizes for clients to choose, small size and bulk size are available, both with high cost-effectiveness.



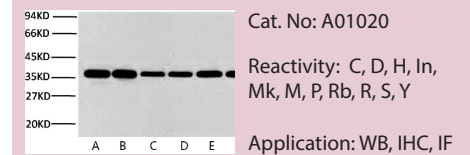
Abbkine offers a wide variety of loading control antibodies for different sample types. You will always find the right one based on your own needs.

Whole cell & Cytoplasmic

If you extract total proteins or cytoplasmic proteins from cells, β -actin, GAPDH and Tubulin will be your choice

Product name	MW	Cat. No.	Application
Anti- β -Actin Mouse Mab (1C7)	43 kDa	A01010	WB, IHC, IF
Anti-GAPDH Mouse Mab (2B5)	37 kDa	A01020	WB, IHC, IF
Anti- β -Tubulin Mouse Mab (3G6)	55 kDa	A01030	WB, IHC, IF
Anti- α -Tubulin Mouse Mab (3G5)	55 kDa	A01080	WB, IHC, IF, IP
Anti-Cyclophilin B Mouse Mab (7B2)	24 kDa	A01130	WB, IHC, IF
Cofilin Rabbit Polyclonal Antibody	19 kDa	ABP51018	WB, IHC, IF
Vinculin Rabbit Polyclonal Antibody	116 kDa	ABP52701	WB, IHC, IF

Anti-GAPDH Mouse Monoclonal Antibody (2B5)



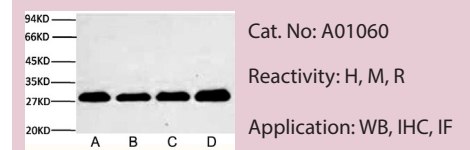
WB analysis (1:10000) of GAPDH expression in Rat brain (lane A), HeLa cell lysate (lane B), etc.

Mitochondrial

For the detection of mitochondrial proteins, you can use the following loading controls

Product name	MW	Cat. No.	Application
Anti-COX IV Mouse Mab (14Y2)	16 kDa	A01060	WB, IHC, IF
HSP60 Rabbit Polyclonal Antibody	60 kDa	ABP51585	WB, IHC, IF
VDAC1 Rabbit Polyclonal Antibody	31 kDa	ABP53121	WB

Anti-COX IV Mouse Monoclonal Antibody (14Y2)



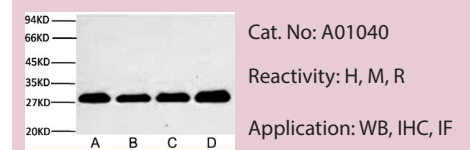
Western blot analysis (1:2000) of COX IV expression in HepG2 (lane A), 293T (lane B), etc.

Nuclear

If your protein of interest is expressed in the nucleus, Histone H3 and PCNA are often selected by researchers

Product name	MW	Cat. No.	Application
Anti-PCNA Mouse Mab (1D7)	29 kDa	A01040	WB, IHC, IF
Anti-Histone H3 Mouse Mab (2D10)	15 kDa	A01070	WB, IHC, IF, IP
Anti-Lamin B1 Monoclonal Antibody (15T1)	66 kDa	A01090	WB, IHC, IF, IP
Anti-TBP/TATA Binding Protein Mab (2C6)	38 kDa	A01120	WB

Anti-PCNA Mouse Monoclonal Antibody (1D7)



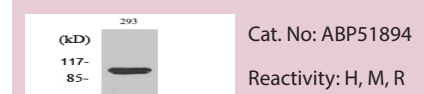
WB analysis (1:2000) of PCNA expression in Rat brain (lane A), A549 cell (lane B), etc.

Membrane & Serum

For membrane proteins, the commonly used protein is Na⁺/K⁺-ATPase; and you can use transferrin for serum samples

Product name	MW	Cat. No.	Application
Na ⁺ /K ⁺ -ATPase α 1 Rabbit Pab	113 kDa	ABP51894	WB, IHC, IF
Transferrin Rabbit Polyclonal Antibody	77 kDa	ABP52968	WB, IHC

Na⁺/K⁺-ATPase α 1 Polyclonal Antibody



To meet the diverse needs of customers, Abbkine not only provides the loading control antibodies for common mammal species, but also some special species such as zebrafish and yeast are available. Some products are as below.

Plant Actin and Rubisco are the representatives of loading controls for plant samples

Anti-Plant Actin Mouse Mab (3T3)



Cat. No: A01050
Reactivity: Plant
Application: WB
WB analysis (1:3000) of plant Actin expression in Arabidopsis (A) and Nicotiana tabacum (B).

Species	Product name	Cat. No.	Application
Plants	Anti-Plant Actin Mouse Mab (3T3)	A01050	WB
	Plant-actin Rabbit Pab	ABP50153	WB
	Anti-Rubisco (Large Chain) Mab (9Y6)	A01110	WB

Abbkine have the common indicators of loading control antibodies special for zebrafish samples

Anti-Histone H3 Monoclonal Antibody (2D9)

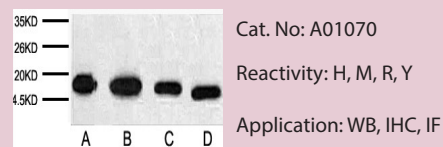


Cat. No: A01100
Reactivity: Zebrafish
Application: WB
Western blot analysis of Zebrafish skeletal muscle at 1:2000 dilution.

Species	Product name	Cat. No.	Application
Zebrafish	GAPDH Rabbit Polyclonal Antibody	ABP50163	WB
	β -actin Monoclonal Antibody	ABM40121	WB
	α -tubulin Monoclonal Antibody	ABM40115	WB
	Anti-Histone H3 Mouse Mab (2D9)	A01100	WB

For yeast samples, you can choose the antibodies from the following table

Anti-Histone H3 Mouse Monoclonal Antibody

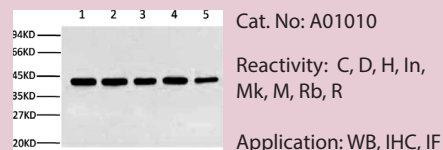


Cat. No: A01070
Reactivity: H, M, R, Y
Application: WB, IHC, IF
Western blot analysis (1:2000) of Histone H3 expression in HepG2 (lane A), 293T (lane B), etc.

Species	Product name	Cat. No.	Application
Yeast	Anti-GAPDH Mouse Mab (2B5)	A01020	WB, IHC, IF
	Anti- β -Tubulin Mouse Mab (3G6)	A01030	WB, IHC, IF
	Anti-Histone H3 Mouse Mab (2D10)	A01070	WB, IHC, IF

Abbkine also possesses the commonly used loading controls for chicken and monkey samples

Anti- β -Actin Mouse Monoclonal Antibody (1C7)



Cat. No: A01010
Reactivity: C, D, H, In, Mk, M, Rb, R
Application: WB, IHC, IF
Western blot analysis (1:10000) of β -Actin expression in Rat brain (1), hela cell lysate (2), etc.

Species	Product name	Cat. No.	Application
C & Mk	Anti- β -Actin Mouse Mab (1C7)	A01010	WB, IHC, IF
	Anti-beta Actin Rabbit Pab	A01011	WB, IHC
	GAPDH Rabbit Polyclonal Antibody	ABP50152	WB, IHC
	Anti-GAPDH Mouse Mab (2B5)	A01020	WB, IHC, IF
	Anti- β -Tubulin Mouse Mab (3G6)	A01030	WB, IHC, IF

Conjugated loading control antibodies



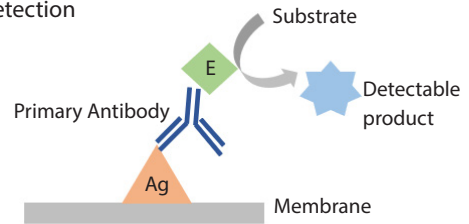
Loading controls serve a number of purposes: they ensure the protein of interest has been correctly loaded on the gel, the protein is being transferred correctly and all reagents are functioning normally.

Abbkine not only offers a wide selection of polyclonal and monoclonal loading control antibodies for different species such as GAPDH, α -tubulin, and β -actin, the conjugated versions of these antibodies, including HRP, Biotin, FITC, Cy3, Cy5 and AbFluor™ dyes are also available for your choice.

Advantages of conjugated antibodies

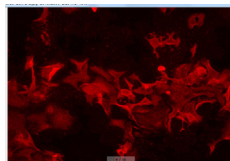
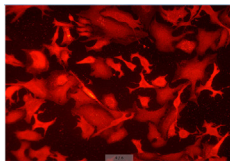
- * Without the secondary antibodies process, thus reducing the non-specific background.
- * Save the time and procedures of washing and incubation, with decreased errors happened and faster results gained.

Direct detection



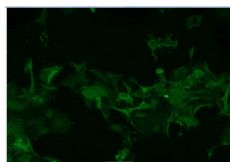
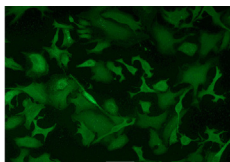
Advantages of AbFluor™ series of conjugated antibodies

The AbFluor™ dyes conjugated loading control antibodies show better fluorescent brightness



Left: Anti- β -Actin Mouse Monoclonal Antibody (1C7), AbFluor™ 555

Right: Anti- β -Actin Mouse Monoclonal Antibody (1C7) with Dylight 549, Goat Anti-Mouse IgG

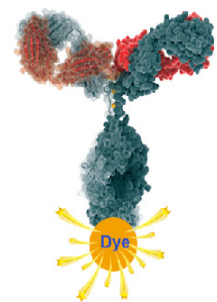


Left: Anti- β -Actin Mouse Monoclonal Antibody (1C7), AbFluor™ 488

Right: Anti- β -Actin Mouse Monoclonal Antibody (1C7) with DyLight 488, Goat Anti-Mouse IgG

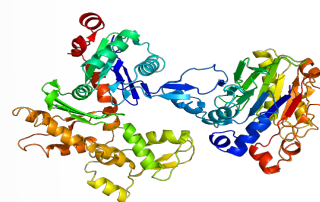
Features & Benefits

- ✓ Abbkine offers comprehensive series of fluorescent antibodies for your choice, including the conventional dyes and unique AbFluor™ dyes.
- ✓ AbFluor™ dyes can be good alternatives for the traditional dyes, with brighter fluorescent brightness, broader fluorescence spectrum and better photostability. You will always find one that fits your needs.
- ✓ To get stable and consistent results, Abbkine fluorescent antibodies are under strict quality control and multiple validation, specifically suitable for immunofluorescence experiments.
- ✓ Except for the conjugated loading control and tag antibodies, Abbkine also provides fluorescent secondary antibodies, such as the Dylight™ and IFKine™ series special for fluorescence multiple labeling.



1. Anti-beta Actin antibodies

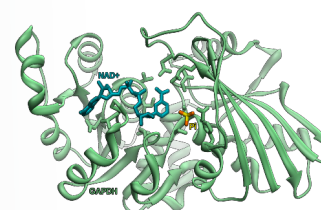
Actins are highly conserved proteins that are involved in various types of cell motility and are ubiquitously expressed in all eukaryotic cells. One of six actin isoforms so far identified, beta actin (gene name ACTB) is a highly conserved cytoskeletal protein involved in cell motility, structure and integrity. Defects in ACTB are a cause of dystonia juvenile-onset (DYTJ), which is a form of dystonia with juvenile onset. Beta-actin is known as a "housekeeping" protein, because it is constantly expressed at high levels in all the cell types. It is therefore a useful loading control in western blot or other immunology analysis.



Product name	Cat. No.	Size	Application
β -actin Rabbit Polyclonal Antibody (A283)	ABP57456	30 μ l, 100 μ l, 200 μ l	WB, IHC
Anti- β -Actin Mouse Monoclonal Antibody (1C7)	A01010	50 μ l, 200 μ l, 1ml, 10ml	WB, IHC, IF
HRP Conjugated Anti-beta Actin Mouse Mab (1C7)	A01015	50 μ l, 200 μ l	WB
Anti- β -Actin Mouse Mab (1C7), Cy3 Conjugated	A01010CY3	100 μ l	IHC, IF
Anti- β -Actin Mouse Mab (1C7), AbFluor™ 488 Conjugated	A01010A488	100 μ l	IHC, IF
Anti- β -Actin Mouse Mab (1C7), AbFluor™ 594 Conjugated	A01010A594	100 μ l	IHC, IF
Anti- β -Actin Mouse Mab (1C7), AbFluor™ 647 Conjugated	A01010A647	100 μ l	IHC, IF

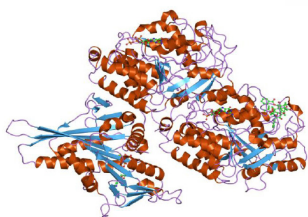
2. Anti-GAPDH antibodies

GAPDH, less commonly as G3PDH, is the abbreviation of Glyceraldehyde 3-phosphate dehydrogenase. It exists as a tetramer of identical 37-kDa subunits and catalyzes the reversible reduction of 1,3-bisphosphoglycerate to glyceraldehyde 3-phosphosphate in the presence of NADPH, which is a critical energy-yielding step in carbohydrate metabolism. It binds to several proteins including actin, tubulin, amyloid precursor, polyglutamine peptides, DRPLA and huntingtin. Apart from playing a key role in glycolysis, GAPDH is ubiquitously expressed and displays other activities unrelated to its glycolytic function.



Product name	Cat. No.	Size	Application
Anti-GAPDH Mouse Monoclonal Antibody (2B5)	A01020	50 μ l, 200 μ l, 1ml, 10ml	WB, IHC, IF
GAPDH Rabbit Polyclonal Antibody	ABP50152	30 μ l, 100 μ l, 200 μ l	WB, IHC
Anti-GAPDH Mouse Mab (2B5), HRP Conjugated	A01025	50 μ l, 200 μ l	WB
Anti-GAPDH Mouse Mab (2B5), Biotin Conjugated	A01020BIO	100 μ l	WB, IHC
Anti-GAPDH Mouse Mab (2B5), FITC Conjugated	A01020FIT	100 μ l	IHC, IF
Anti-GAPDH Mouse Mab (2B5), AbFluor™ 488 Conjugated	A01020A488	100 μ l	IHC, IF

3. Anti-Tubulin antibodies

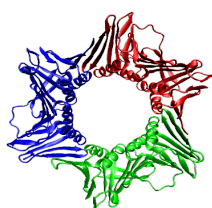


α - and β -tubulin polymerize into dynamic microtubules. In eukaryotes, microtubules are one of the major components of the cytoskeleton, and function in many processes, including structural support, intracellular transport, and DNA segregation. Tubulin-binding drugs kill cancerous cells by inhibiting microtubule dynamics, which are required for DNA segregation and cell division. Both α and β tubulins have a mass of around 50 kDa and are thus in a similar range compared to actin with about 42 kDa.

Tubulin is characterized by the evolutionarily conserved Tubulin/FtsZ family, GTPase protein domain. This GTPase protein domain is found in all eukaryotic tubulin chains, as well as the bacterial protein TubZ, the archaeal protein CetZ, and the FtsZ protein family widespread in Bacteria and Archaea.

Product name	Cat. No.	Size	Application
Anti- β -Tubulin Mouse Mab (3G6), HRP Conjugated	A01030HRP	50 μ l, 200 μ l	WB, IHC
Anti- β -Tubulin Mouse Mab (3G6), AbFluor™ 488 Conjugated	A01030A488	100 μ l	IHC, IF
Anti- β -Tubulin Mouse Mab (3G6), AbFluor™ 594 Conjugated	A01030A594	100 μ l	IHC, IF
α -tubulin Rabbit Polyclonal Antibody	ABP50154	30 μ l, 100 μ l, 200 μ l	WB
Anti- α -Tubulin Mouse Mab, HRP Conjugated	A01080HRP	50 μ l, 200 μ l	WB, IHC
Anti- α -Tubulin Mouse Mab (3G5), AbFluor™ 488 Conjugated	A01080A488	100 μ l	IHC, IF
Anti- α -Tubulin Mouse Mab (3G5), AbFluor™ 594 Conjugated	A01080A594	100 μ l	IHC, IF

4. Anti-PCNA antibodies



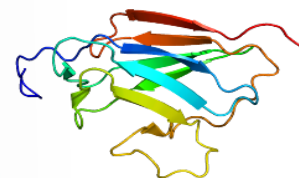
Proliferating Cell Nuclear Antigen, commonly known as PCNA plays a central role in coordinating the association of replication factors during DNA replication as well as during recognition and repair of DNA damage. PCNA was originally identified as an antigen that is expressed in the nuclei of cells during the DNA synthesis phase of the cell cycle. PCNA forms a toroidal, ring-shaped structure of 90 kDa by the symmetric association of three identical monomers. The ring encircles the DNA, acts as a platform upon which polymerases and other proteins dock to perform various DNA metabolic processes, and functions as a DNA polymerase-delta co-factor.

Product name	Cat. No.	Size	Application
PCNA Rabbit Polyclonal Antibody	ABP52161	30 μ l, 100 μ l, 200 μ l	WB, IHC
Anti-PCNA Mouse Mab (1D7), HRP Conjugated	A01040HRP	50 μ l, 200 μ l	WB, IHC
Anti-PCNA Mouse Mab (1D7), Biotin Conjugated	A01040BIO	100 μ l	WB, IHC
Anti-PCNA Mouse Mab (1D7), AbFluor™ 488 Conjugated	A01040A488	100 μ l	IHC, IF
Anti-PCNA Mouse Mab (1D7), AbFluor™ 647 Conjugated	A01040A647	100 μ l	IHC, IF
Anti-PCNA Mouse Mab (1D7), AbFluor™ 594 Conjugated	A01040A594	100 μ l	IHC, IF



5. Anti-Lamin B1 antibodies

Laminins, a family of extracellular matrix glycoproteins, are the major noncollagenous constituent of basement membranes. The nuclear lamina consists of a two-dimensional matrix of proteins located next to the inner nuclear membrane. The lamin family of proteins make up the matrix and are highly conserved in evolution. During mitosis, the lamina matrix is reversibly disassembled as the lamin proteins are phosphorylated. Lamin proteins are thought to be involved in nuclear stability, chromatin structure, and gene expression. Vertebrate lamins consist of two types, A and B. This gene encodes one of the two B type proteins, B1. Lamin B, along with heterochromatin, is anchored to the inner surface of the nuclear membrane by the lamin B receptor.



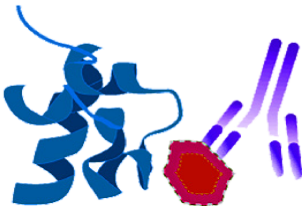
Product name	Cat. No.	Size	Application
Lamin B1 Rabbit Polyclonal Antibody	ABP50171	30µl, 100µl, 200µl	WB
Anti-Lamin B1 Mab (15T1), HRP Conjugated	A01090HRP	50µl, 200µl	WB, IHC
Anti-Lamin B1 Mab (15T1), AbFluor™ 488 Conjugated	A01090A488	100µl	IHC, IF
Anti-Lamin B1 Mab (15T1), AbFluor™ 594 Conjugated	A01090A594	100µl	IHC, IF

5. Other loading control antibodies

Loading control antibodies are basic and commonly used products in life science laboratories. For many familiar experiments, such as WB, IHC, you may always need the loading controls. Abbkine provides full range of universal and conjugated loading control antibodies for global life science researchers to choose.

Product name	Cat. No.	Size	Application
Anti-Plant Actin Mouse Mab (3T3), HRP Conjugated	A01050HRP	50µl, 200µl	WB
Anti-COX IV Mouse Mab (14Y2), HRP Conjugated	A01060HRP	50µl, 200µl	WB, IHC
Anti-COX IV Mouse Mab (14Y2), AbFluor™ 488 Conjugated	A01060A488	100µl	IHC, IF
Anti-Histone H3 Mouse Mab (2D10), HRP Conjugated	A01070HRP	50µl, 200µl	WB, IHC
Anti-Histone H3 Mouse Mab (2D10), Cy3 Conjugated	A01070CY3	100µl	IHC, IF
Anti-Histone H3 Mouse Mab (2D10), AbFluor™ 488 Conjugated	A01070A488	100µl	IHC, IF
Anti-Rubisco (Large Chain) Mab (9Y6), HRP Conjugated	A01110HRP	50µl, 200µl	WB
Anti-TBP/TATA Binding Protein Mab (2C6), HRP Conjugated	A01120HRP	50µl, 200µl	WB
Anti-Cyclophilin B Mab (7B2), HRP Conjugated	A01130HRP	50µl, 200µl	WB, IHC
Anti-Cyclophilin B Mab (7B2), Cy3 Conjugated	A01130CY3	100µl	IHC, IF
Anti-Cyclophilin B Mab (7B2), AbFluor™ 488 Conjugated	A01130A488	100µl	IHC, IF
Anti-Cyclophilin B Mab (7B2), AbFluor™ 647 Conjugated	A01130A647	100µl	IHC, IF

Epitope & Tag antibodies



Epitope tags are frequently used with recombinant protein from E. coli, yeast or mammalian cell cultures to allow researchers to selectively extract a target protein from the endogenous samples. They can also serve as a universal detection method by using tag-specific antibodies to these sequences in applications such as Western blot, ELISA, immunofluorescence and immunoprecipitation.

Abbkinne epitope tag antibodies include highly specific monoclonal and polyclonal antibodies of the most common tags used by researchers, such as His tag, GST tag, S tag, HA tag, DDDDK tag, Myc tag, MBP Tag and mCherry tag, etc. Abbke also offers a wide selection of conjugated epitope tag antibodies, including Biotin, HRP, AbFluor™ dyes, agarose and magnetic beads conjugates.

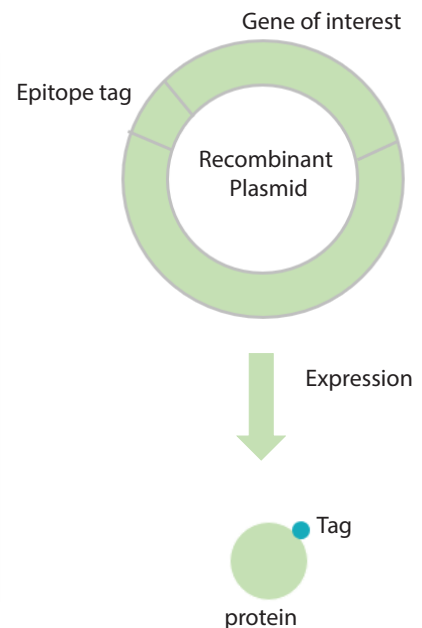
How to choose an epitope?

All tags offer some means of purification, but the purity, convenience, and cost will determine their suitability

- * The best known tag is poly-histidine, which is based upon the affinity of nickel for four or more consecutive histidine residues. It is popular because of its ability to purify under denaturing conditions, ease of reuse, and reasonable price.
- * Tags that use antibody-based purification formats (such as DDDDK, HA, HSV, c-Myc) offer higher levels of purity, but the antibody resins are expensive to produce and cannot be reused easily. This is of particular use in high-throughput screening, or where proteins are expressed at low levels.
- * Other tags with cost-effective purification resins are MBP and GST. These tags are approximately 40 times the size of metal affinity tags, so they may interfere with the structure or function of the fusion partner. However, tags such as MBP and GST can improve solubility, which is especially important when expressing proteins at high levels in prokaryotes as they have more primitive posttranslational folding and processing machinery than eukaryotes.
- * Epitope tags can also be used for immobilization or attachment, to investigate protein interactions. If a purification resin is loaded with protein, then it can be used as 'bait' to capture binding partners (immunoprecipitation). In this case, the specificity of the resin becomes crucial to avoid interference from contaminants.

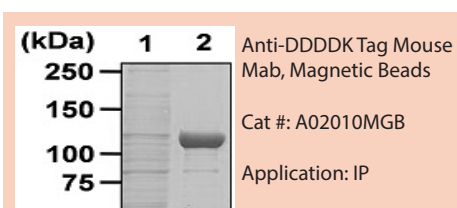
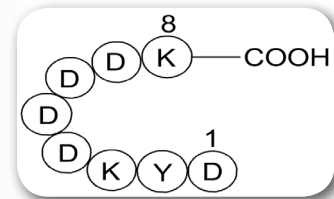
Common epitope tags

Name	Amino Acid Quantity	Amino Acid Sequence
His tag	6	HHHHHH
DDDDK tag	8	DYKDDDDK
HA tag	9	YPYDVPDYA
c-Myc tag	10	EQKLISEEDL
V5 tag	14	GKPIPNNLLGLDST
HAT tag	19	KDHLIHNVHKEFHAAHANK
HSV tag	11	QPELAPEDPED
RFP tag	15	VNGHEFEIEGEGEGR
S tag	15	KETAAAKFERQHMDS
TAP tag	21	CSSGALDYDIPTTASENLYFQ



1. Anti-DDDDK Tag antibodies

DDDDK-tag is a polypeptide protein tag that can be added to a protein using recombinant DNA technology, which allows elution under non-denaturing conditions. The DDDDK tag is likely to be located on the surface of a fusion protein because of its hydrophilic nature and therefore is more likely to be accessible to antibodies. It has been used for studying proteins in living cells and for protein purification by affinity chromatography. It can also be used in the isolation of protein complexes with multiple subunits. Abbkine offers a full range of conjugated DDDDK tag antibodies for your choice.

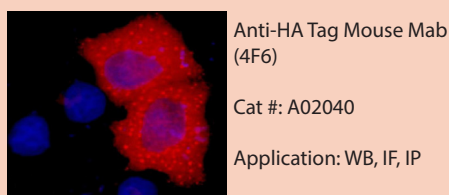
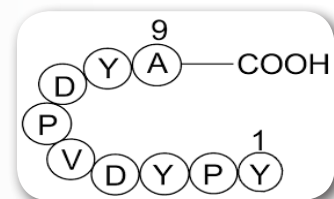


Immunoprecipitation following Western blotting analysis of DDDDK fusion protein.

Product Name	Cat. No.	Application
Anti-DDDDK Tag Mouse Monoclonal Antibody (1B10)	A02010	WB, IF, IP
HRP Conjugated Anti-DDDDK Tag Mouse Mab (1B10)	A02015	WB
Anti-DDDDK Tag Mouse Mab (1B10), Cy3 Conjugated	A02010CY3	IF
Anti-DDDDK Tag Mouse Mab (1B10), AbFluor™ 488	A02010A488	IF
Anti-DDDDK Tag Mouse Mab (1B10), AbFluor™ 594	A02010A594	IF
Anti-DDDDK Tag Mouse Mab (1B10), AbFluor™ 647	A02010A647	IF
Anti-DDDDK Tag Mouse Mab, Agarose	A02010AGB	IP
Anti-DDDDK Tag Mouse Mab, Magnetic Beads	A02010MGB	IP

2. Anti-HA Tag antibodies

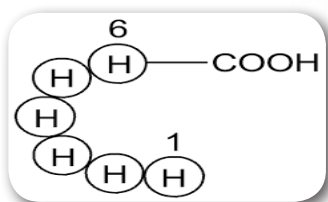
Human influenza hemagglutinin (HA) is a surface glycoprotein required for the infectivity of the human virus. The HA tag is derived from the HA-molecule corresponding to amino acids 98-106. The HA tag has been extensively used as a general epitope tag in expression vectors. Many recombinant proteins have been engineered to express the HA tag, which does not appear to interfere with the bioactivity or the biodistribution of the recombinant protein. This tag facilitates the detection, isolation, and purification of the protein of interest. The recombinant HA-tagged proteins can be separated by highly specific anti-HA monoclonal antibody that is covalently immobilized on resin.



IF staining (1:2000) of HA fusion protein in 293 cells with red and counterstained with DAPI.

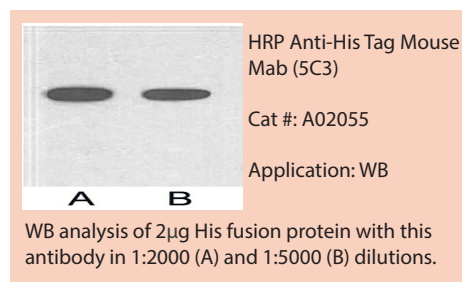
Product Name	Cat. No.	Application
Anti-HA Tag Mouse Monoclonal Antibody (4F6)	A02040	WB, IF, IP
HRP Conjugated Anti-HA Tag Mouse Mab (4F6)	A02045	WB
Anti-HA Tag Mouse Mab (4F6), AbFluor™ 488	A02040A488	IF
Anti-HA Tag Mouse Mab (4F6), AbFluor™ 594	A02040A594	IF
Anti-HA Tag Mouse Mab (4F6), AbFluor™ 647	A02040A647	IF
Anti-HA Tag Mouse Monoclonal Antibody, Agarose	A02040AGB	IP
Anti-HA Tag Mouse Mab, Magnetic Beads	A02040MGB	IP

3. Anti-His Tag antibodies

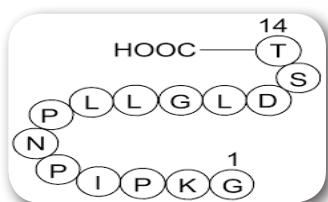


A polyhistidine-tag is an amino acid motif in proteins that consists of at least six histidine (His) residues, often at the N- or C-terminus of the protein. It is also known as hexa histidine-tag, 6xHis-tag, His6 tag and His-tag. His-tag are often used for affinity purification of His-tagged recombinant proteins expressed in *E. coli* and other prokaryotic expression systems. His-tag fusion proteins can be purified and detected easily because the string of histidine residues binds to several types of immobilized metal ions, including nickel, cobalt and copper, under specific buffer conditions. In addition, anti-His-tag antibodies are commercially available for use in assay methods involving His-tagged proteins.

Product Name	Cat. No.	Application
Anti-His Tag Mouse Monoclonal Antibody (5C3)	A02050	WB, IF, IP
Anti-His Tag Rabbit Polyclonal Antibody	A02051	WB
HRP Conjugated Anti-His Tag Mouse Mab (5C3)	A02055	WB
Anti-His Tag Mouse Mab (5C3), AbFluor™ 488	A02050A488	IF
Anti-His Tag Mouse Mab (5C3), AbFluor™ 647	A02050A647	IF
Anti-His Tag Mouse Monoclonal Antibody, Agarose	A02050AGB	IP
Anti-His Tag Mouse Mab, Magnetic Beads	A02050MGB	IP
Anti-His Tag Rabbit Polyclonal Antibody, HRP	A02051HRP	WB

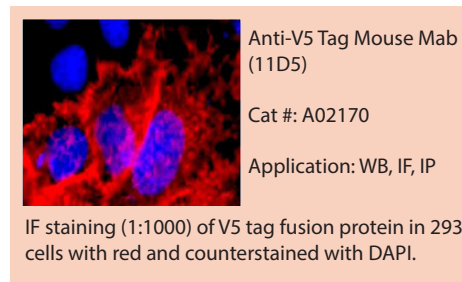


4. Anti-V5 Tag antibodies



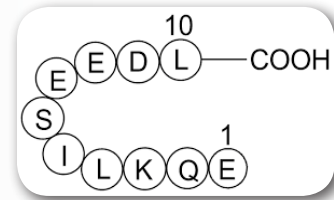

The V5 tag is derived from a small epitope (Pk) found on the P and V proteins of the paramyxovirus of simian virus 5 (SV5). The V5 tag is generally used with all 14 amino acids (GKPIPPLLGLDST), but it may also be used with a shorter 9-amino acid (IPNPLLGLD) sequence. V5 tag antibodies provide a dependable method for the detection and purification of tagged target proteins without a protein-specific antibody or probe. The V5 epitope tag is commonly engineered onto the N- or C- terminus of a protein of interest so that the tagged protein can be analyzed and visualized using immunochemical methods.

Product Name	Cat. No.	Application
Anti-V5 Tag Mouse Monoclonal Antibody (11D5)	A02170	WB, IF, IP
Anti-V5 Tag Mouse Monoclonal Antibody (11D5), HRP	A02170HRP	WB
Anti-V5 Tag Mouse Mab(11D5), Cy3 Conjugated	A02170CY3	IF
Anti-V5 Tag Mouse Mab (11D5), AbFluor™ 488	A02170A488	IF
Anti-V5 Tag Mouse Mab (11D5), AbFluor™ 647	A02170A647	IF
Anti-V5 Tag Mouse Mab Magnetic Beads	A02170MGB	IP
Anti-V5 Tag Mouse Monoclonal Antibody, Agarose	A02170AGB	IP



5. Anti-Myc Tag antibodies

A Myc tag is a polypeptide protein tag derived from the c-Myc gene product that can be added to a protein using recombinant DNA technology. The recombinant Myc fusion protein can be recognized by a well-known high-affinity 2D5 antibody, which can specifically recognize native and denatured forms of Myc fusion proteins, with which can meet your any requirements for Western Blot, Immunofluorescence and Immunoprecipitation assays. Under native conditions, the elution of Myc-tag proteins can be achieved by the addition of the Myc tag peptide which competes with the recombinant proteins.

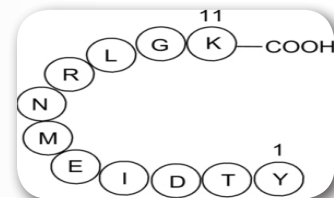
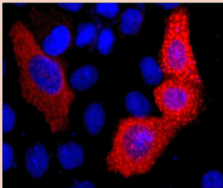
HRP Anti-Myc Tag Mouse Mab (2D5)
Cat #: A02065
Application: WB

WB analysis of Myc fusion protein with HRP Conjugated Anti-Myc Tag antibody in 1:1000 dilutions.

Product Name	Cat. No.	Application
Anti-Myc Tag Mouse Monoclonal Antibody (2D5)	A02060	WB, IF, IP
HRP Conjugated Anti-Myc Tag Mouse Mab (2D5)	A02065	WB
Anti-Myc Tag Rabbit Polyclonal Antibody	A02061	WB
Anti-Myc Tag Mouse Mab (2D5), AbFluor™ 488	A02060A488	IF
Anti-Myc Tag Mouse Mab (2D5), AbFluor™ 594	A02060A594	IF
Anti-Myc Tag Mouse Mab (2D5), AbFluor™ 647	A02060A647	IF
Anti-Myc Tag Mouse Mab, Magnetic Beads	A02060MGB	IP
Anti-Myc Tag Mouse Mab, Agarose	A02060AGB	IP

6. Anti-VSV-G Tag antibodies

VSV-G, a vesicular stomatitis virus G (VSV-G) protein fragment, which is commonly used in biomedical research to pseudotype retroviral and lentiviral vectors. The VSV-G epitope tag is commonly engineered onto the N- or C- terminus of a protein of interest so that the tagged protein can be analyzed and visualized using immunochemical methods.

Anti-VSV-G Tag Mouse Mab (14D2)
Cat #: A01080
Application: WB, IF, IP

IF staining (1:1000) of VSV-G fusion protein in 293 cells with red and counterstained with DAPI.

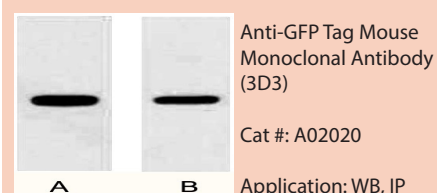
Product Name	Cat. No.	Application
Anti-VSV-G-Tag Mouse Mab(14D2)	A02180	WB, IF, IP
Anti-VSV-G-Tag Mouse Mab(14D2), Cy5 Conjugated	A02180CY5	IF
Anti-VSV-G-Tag Mouse Mab(14D2), HRP Conjugated	A02180HRP	WB
Anti-VSV-G-Tag Mouse Mab (14D2), AbFluor™ 488	A02180A488	IF
Anti-VSV-G-Tag Mouse Mab, Magnetic Beads	A02180MGB	IP
Anti-VSV-G-Tag Mouse Mab (14D2), AbFluor™ 594	A02180A594	IF
Anti-VSV-G-Tag Mouse Mab (14D2), AbFluor™ 647	A02180A647	IF
Anti-VSV-G-Tag Mouse Mab, Agarose	A02180AGB	IP

7. Other Tag antibodies



The use of epitope tag eliminates the additional step of using a different antibody for each newly purified protein. Besides the most commonly used epitope tags including His, HA, Myc, GST and DDDDK tag, Abbkine offers many other specific tag antibodies for researchers. Our tagged antibodies are manufactured under extensive quality control to ensure optimal sensitivity and consistent performance, which can serve as a universal detection method in applications such as western blot, immunofluorescence and immunoprecipitation. Our customer service team also provides you customized tag fusion antibodies production, tag peptides synthesis and modification services according to your request.

Product Name	Cat. No.	Application
Anti-GFP Tag Mouse Monoclonal Antibody (3D3)	A02020	WB, IP
Anti-GFP Tag Rabbit Polyclonal Antibody	A02021	WB
Anti-GST Tag Mab (2A8), HRP Conjugated	A02030HRP	WB
Anti-GST Tag Mouse Monoclonal Antibody (2A8)	A02030	WB
Anti-MBP Tag Mouse Mab (9Y5), HRP Conjugated	A02070HRP	WB
Anti-mCherry Tag Mouse Mab (9D3), HRP Conjugated	A02080HRP	WB
Anti-E2 Tag Mouse Monoclonal Antibody (12T4)	A02090	WB
Anti-HSV Tag Mouse Monoclonal Antibody (16T2)	A02100	WB
Anti-KT3 Tag Mouse Monoclonal Antibody (14D8)	A02110	WB
Anti-RFP Tag Mouse Monoclonal Antibody (9D1)	A02120	WB
Anti-S Tag Mouse Monoclonal Antibody (9T10)	A02130	WB
Anti-T7 Tag Mouse Monoclonal Antibody (6D4)	A02150	WB
Anti-Trx Tag Mouse Monoclonal Antibody (14D4)	A02160	WB
Anti-CBP Tag Monoclonal Antibody (12H5)	A02190	WB
Anti-TAP Tag Monoclonal Antibody (4H2)	A02200	WB
Anti-Avi-Tag Monoclonal Antibody (5G11), HRP	A02210HRP	WB
Anti-SRT-Tag Monoclonal Antibody (11G3)	A02220	WB
Anti-mStrawberry Monoclonal Antibody (4C9)	A02240	WB
Anti-EYFP-Tag Monoclonal Antibody (10T3)	A02250	WB
Anti-mOrange Monoclonal Antibody (9A10)	A02260	WB
Anti-AmCyan Monoclonal Antibody (8T2)	A02270	WB
Anti-ECFP-Tag Monoclonal Antibody (6B11)	A02280	WB
Anti-ECFP-Tag Monoclonal Antibody (6B11), HRP	A02280HRP	WB
Anti-EBFP Monoclonal Antibody (8B5)	A02290	WB
Anti-EBFP Monoclonal Antibody (8B5), HRP	A02290HRP	WB
Anti-Nano-Tag9 Monoclonal Antibody (11T3)	A02300	WB
Anti-Nano-Tag9 Monoclonal Antibody (11T3), HRP	A02300HRP	WB

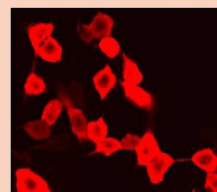


Anti-GFP Tag Mouse Monoclonal Antibody (3D3)

Cat #: A02020

Application: WB, IP

WB (1:10000) analysis of GFP fusion protein with Anti-GFP mouse mab (3D3) in 1:5000 dilutions.

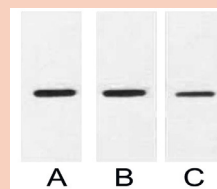


Anti-mCherry Tag Mouse Mab (9D3)

Cat #: A02080

Application: WB, IF

Immunofluorescence staining (1:200) of mCherry fusion protein in 293 cells with red.



Anti-MBP Tag Mouse Mab (9Y5)

Cat #: A02070

Application: WB

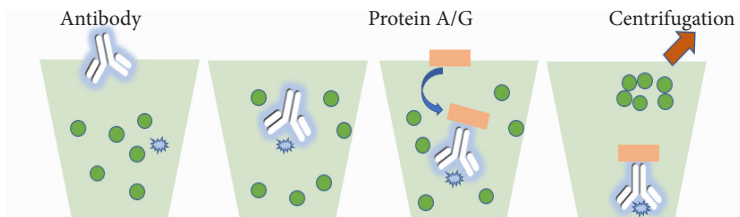
WB analysis of 0.5 µg MBP fusion protein with antibody in 1:2000 (A), 1:3000 (B) and 1:5000 (C).

Conjugated tag antibodies

Relying on advanced protein coupling technology and strict quality control specification, Abbkine has launched the conjugated tag antibodies with high quality and multiple applications. The labeling groups including the following HRP, FITC, Cy3, Cy5, AbFluor™ fluorophores (350, 405, 488, 555, 594, 647, 680), agarose and magnetic beads.

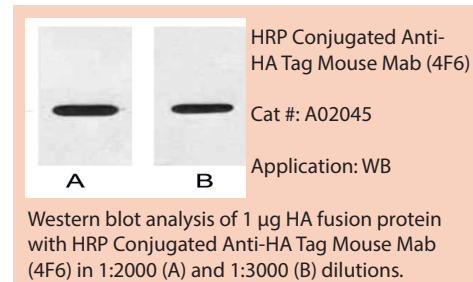
1. HRP Conjugated tag antibodies

Especially suitable for western blot detection after immunoprecipitation



When anti-IgG (H+L) antibodies are applied to detect protein bands on Western blots after immunoprecipitation, two unexpected bands appear corresponding to the heavy (50 kDa) and light chains (25 kDa) of the precipitated primary antibody. These bands usually obscure detection of any protein of interest with a molecular weight near 50 kDa or 25 kDa.

To solve this problem, choosing a HRP conjugated tag antibody is a solution. It saved the process of using secondary antibody, thus eliminating heavy and light chains interference. You can also choose Abbkine IPKine™ heavy or light chain specific secondary antibody.

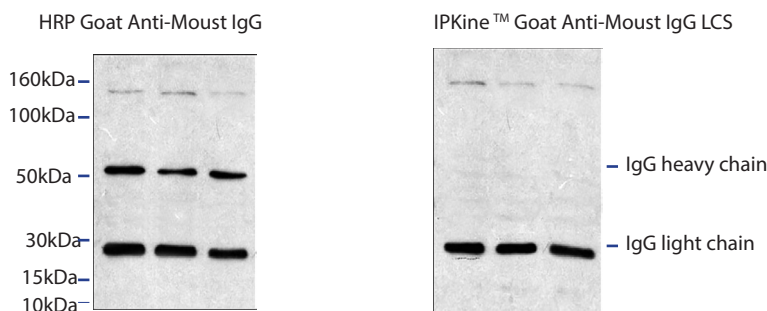


IPKine™ secondary antibody

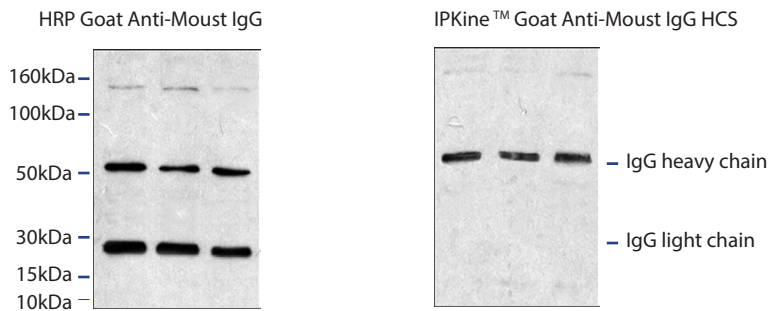
Another choice to avoid the heavy or light chain interference for western blot assays after immunoprecipitation

Product Name	Specificity	Cat. No.	Size	Application
IPKine™ HRP Goat Anti-Mouse IgG LCS	Light chain specific	A25012	100µl, 500µl	IP-WB
IPKine™ HRP Mouse Anti-Rabbit IgG LCS		A25022	100µl, 500µl	IP-WB
IPKine™ HRP, Goat Anti-Mouse IgG HCS	Heavy chain specific	A25112	100µl, 500µl	IP-WB
IPKine™ HRP, Goat Anti-Rabbit IgG HCS		A25222	100µl, 500µl	IP-WB

✓ IPKine™ LCS antibody for target protein approaching 50 kDa



✓ IPKine™ HCS antibody for target protein approaching 25 kDa



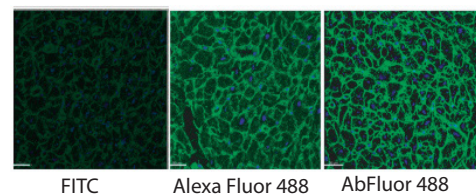
2. Fluorescence conjugated tag antibodies

Abbkine offers a wide variety of tag antibodies conjugated with different fluorophores, including the traditional dyes (FITC, Cy3, Cy5) and featured AbFluor™ dyes spanning full UV-visible and near-infrared spectrum, special for immunofluorescence assays.

AbFluor™ dyes - The next generation of fluorescent dyes

A series of highly water-soluble fluorescent dyes with super fluorescence performance

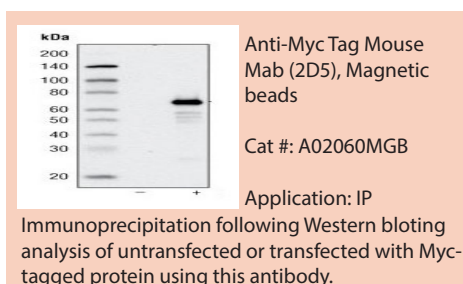
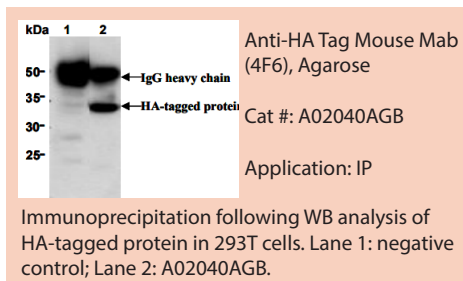
Innovative modifications to the core structure makes AbFluor™ dyes superior to other commercial dyes with many innovative novel features, including higher fluorescence brightness, improved photostability, broader pH range tolerance, better permeability and lower background. As the 3rd generation of fluorescent dyes, AbFluor™ dyes performed not only better than other traditional dyes, such as FITC, TRITC and Cy® dyes, but also exceed the quality of other 2nd generation commercial dyes, such as Alexa Fluor®, Dylight® and IRDye® dyes.



Product name	Cat. No.	Size	Application
Anti-DDDDK Tag Mouse Mab (1B10), AbFluor™ 405 Conjugated	A02010A405	100µl	IF
Anti-DDDDK Tag Mouse Mab (1B10), AbFluor™ 488 Conjugated	A02010A488	100µl	IF
Anti-DDDDK Tag Mouse Mab (1B10), AbFluor™ 647 Conjugated	A02010A647	100µl	IF
Anti-HA Tag Mouse Monoclonal Antibody (4F6), AbFluor™ 488	A02040A488	100µl	IF
Anti-HA Tag Mouse Monoclonal Antibody (4F6), AbFluor™ 594	A02040A594	100µl	IF
Anti-HA Tag Mouse Monoclonal Antibody (4F6), AbFluor™ 647	A02040A647	100µl	IF
Anti-His Tag Mouse Monoclonal Antibody (5C3), AbFluor™ 488	A02050A488	100µl	IF
Anti-His Tag Mouse Monoclonal Antibody (5C3), AbFluor™ 594	A02050A594	100µl	IF
Anti-His Tag Mouse Monoclonal Antibody (5C3), AbFluor™ 647	A02050A647	100µl	IF
Anti-Myc Tag Mouse Mab (2D5), AbFluor™ 488 Conjugated	A02060A488	100µl	IF
Anti-Myc Tag Mouse Mab (2D5), AbFluor™ 594 Conjugated	A02060A594	100µl	IF
Anti-Myc Tag Mouse Mab (2D5), AbFluor™ 647 Conjugated	A02060A647	100µl	IF
Anti-V5 Tag Mouse Mab (11D5), AbFluor™ 488 Conjugated	A02170A488	100µl	IF
Anti-V5 Tag Mouse Mab (11D5), AbFluor™ 594 Conjugated	A02170A594	100µl	IF
Anti-VSV-G-Tag Mouse Mab (14D2), AbFluor™ 488 Conjugated	A02180A488	100µl	IF
Anti-VSV-G-Tag Mouse Mab (14D2), AbFluor™ 647 Conjugated	A02180A647	100µl	IF

3. Agarose/Magnetic beads conjugated tag antibodies

Abbkine agarose/magnetic beads conjugated antibodies are purified antibodies covalently coupled to agarose or magnetic beads, which are perfect replacements for Protein A/G



Product Name	Cat. No.	Application
Anti-DDDDK Tag Mouse Mab (1B10), Agarose	A02010AGB	IP
Anti-DDDDK Tag Mouse Mab (1B10), Magnetic Beads	A02010MGB	IP
Anti-HA Tag Mouse Mab (4F6), Agarose	A02040AGB	IP
Anti-HA Tag Mouse Mab (4F6), Magnetic Beads	A02040MGB	IP
Anti-His Tag Mouse Mab (5C3), Agarose	A02050AGB	IP
Anti-His Tag Mouse Mab (5C3), Magnetic Beads	A02050MGB	IP
Anti-Myc Tag Mouse Mab (2D5), Agarose	A02060AGB	IP
Anti-Myc Tag Mouse Mab (2D5), Magnetic Beads	A02060MGB	IP
Anti-V5 Tag Mouse Mab (11D5), Agarose	A02170AGB	IP
Anti-V5 Tag Mouse Mab (11D5), Magnetic Beads	A02170MGB	IP
Anti-VSV-G-Tag Mouse Mab (14D2), Agarose	A02180AGB	IP
Anti-VSV-G-Tag Mouse Mab (14D2), Magnetic Beads	A02180MGB	IP

Magnetic beads vs. Agarose resins for immunoprecipitation

Agarose resins are porous and mesh-like structures, and antibodies can diffuse and bind to the internal matrix of the resins, which provides high binding capacity.

Magnetic beads are simple spheres, providing ease of handling and short processing time. With appropriate coating, background can be reduced. However, binding capacity may not be high enough for some applications, and the cost is higher than agarose resins.

Features & Advantages

- ✓ Specific — highly specific tag monoclonal antibody enables high yield and high purity of immunoprecipitation
- ✓ Low background — stable, pre-blocked beads and specific antibody minimize non-specific binding for immunoprecipitation
- ✓ Convenient — product instructions provide an easy-to-follow, optimized protocol for immunoprecipitation in approximately 1-2 hours
- ✓ Flexible — available in 100µl, 400µl and 2ml resin package sizes to allow for small and large scale immunoprecipitations
- ✓ Versatile — beads are compatible with manual and automated workflows



Part of Abbkine Product Publications

Abbkin products have been widely cited and recommended by hundreds and thousands of world's life science research journals. Below are part of the publications lists.

If you have published articles using Abbkin's products, kindly send email to marketing@abbkine.com, or submit your publications [online here](#). We'll reward you gift for your continue research.



- Xu H J, Xue J, Lu B, et al. Two insulin receptors determine alternative wing morphs in planthoppers. *Nature*, 2015, 519(7544): 464-467. IF: 38.138.
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