

Rabbit IgG anti-Llama IgG2a (Fc)-unconj., MinX none

General Information

Catalog Number: SEC-183654	Physical State: Liquid (sterile filtered)
Quantity: 0,5 mg	Reconstitution Volume:
	Reconstitution Buffer:
	Shipping Conditions: Dry Ice
	Product Expiration: Expiration date is one (1) year from date of opening.

Antibody Host / Format

Host Species: Rabbit	Clonality / Isotype / Clone: polyclonal Ig
Antibody Format: IgG whole molecule	Concentration: 1.07 mg/ml by UV absorbance at 280 nm
	Conjugation: unconjugated
	Maximum Excitation / Emission: /

Specificity

Target Species: Llama	Immunogen: Llama IgG2
Antibody Specificity: IgG2a (IgG Fc gamma 2a)	Anti-Llama IgG2 antibody is directed against Llama IgG2a, IgG2b, and IgG2c isotypes with minimal cross-reactivity to Llama IgG3 and Llama IgG1. Anti-Llama IgG2 antibody was prepared from monospecific antiserum by immunoaffinity chromatography. Assay by immunoelectrophoresis resulted in a single precipitin arc against anti-rabbit serum, Llama IgG2 and Llama Serum. No reaction was observed against Llama IgG1, and Llama IgG3. This antibody does not recognize recombinant VHH with IgG3 background.
	Minimal Cross Reactivity: none

Formulation, Transport and Storage

Storage Buffer: 0.01 M Sodium Phosphate, 0.25 M Sodium Chloride, pH 7.2	Store vial at -20° C prior to opening. This product is stable at 4° C as an undiluted liquid. For extended storage, aliquot contents and freeze at -20° C or below. Avoid cycles of freezing and thawing. Dilute only prior to immediate use.
Stabilizer: None	
Preservatives: 0.01% (w/v) Sodium Azide	
	Storage Temperature: -20°C

Application Recommendation

Application: ELISA, Immunohistochemistry (IHC), Immunohistochemistry (Paraffin-embedded Sections), Immunohistochemistry (frozen sections), Western Blot

This product is for In Vitro experimental use only. Not for Therapeutic or Diagnostic use.

Manufacturer

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www.tuv.com
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Dilution: ELISA 1:60.0000, Immunohistochemistry (IHC) application-dependent, Western Blot (WB) 1:20.000-1:40.000

Application Note:

Antibody Anti-Llama IgG2 is suitable for immunoblotting (western or dot blot), ELISA, and immunohistochemistry assays requiring lot-to-lot consistency.

Background Information

Camelids produce functional IgG isotypes that do not incorporate light chains. Comparative studies of old world camelids (Camelus bactrianus and Camelus dromedarius) and new world camelids (Lama pacos, Lama glama and Lama vicugna) have shown that heavy-chain-only immunoglobulins represent between 35% - 70% of total IgG in the sera of all species. At present, three subclasses of camelid IgG have been identified (IgG1, IgG2, IgG3), of which IgG2 and IgG3 lack the light chains. IgG2 consists of dimers of short heavy chains, which are characterized by a normal Fc region without a CH1 domain. IgG2 shows a molecular weight of approximately 90 kDa and this smaller size improves its bio-distribution and allows a better tissue penetration. Of special importance is the long complementary determining region (CDR) loop which inserts deep into the active site of an enzyme enabling a complete neutralization of an enzyme. Anti-Llama IgG2 generated in rabbit detects specifically Llama IgG2 isotype. This anti-Llama secondary Antibody is suitable for western blot, ELISA, ChIP and immunohistochemistry as well as other more general immunoassays.

Safety Information

This reagent contains sodium azide (a poisonous and hazardous substance) as preservative. Although this concentration is not regarded as dangerous to health, appropriate measures should be taken to avoid skin and eye contact, inhalation, and ingestion. Standard Laboratory Practices should be followed when handling this material.

Disclaimer

This product is warranted to perform in conformance with product specifications and to be free from defects in material and workmanship. Products are supplied for research use only. The warranty provided herein is valid only when used by properly trained individuals. Unless otherwise stated, this warranty is limited to one year from date of shipment when the product is subjected to normal, proper and intended usage. Buyer's exclusive remedy for non-conforming products during the warranty period is limited to replacement of or refund for the non-conforming product(s). There is no obligation to replace products as the result of accident or disaster or inappropriate use of the products in a manner for which they were not designed, or improper storage and handling of the products.

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