

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

General Information

Catalog Number: SEC-182476	Physical State: Liquid (sterile filtered)
Quantity: 25 µl	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: 1.3 mg/mL by UV absorbance at 280 nm
	Conjugation: unconjugated
	Maximum Excitation / Emission: /

Specificity

Target Species: Llama	Immunogen: This antibody was prepared from whole rabbit serum produced by repeated immunizations with a VhH camelid domain protein.
Antibody Specificity: IgG (VHH domain)	Anti-VhH is directed against the llama VhH protein fragment. The product was purified from monospecific antiserum by protein A chromatography. Anti-Vhh antibody detects recombinant VhH proteins, native Llama IgG2 and native Llama IgG3.
	Minimal Cross Reactivity: none

Formulation, Transport and Storage

Storage Buffer: 0.02 M Potassium Phosphate, 0.15 M Sodium Chloride, pH 7.2	reagent (25 µL). To minimize loss of volume dilute 1:10 by adding 225 µL of the buffer stated above directly to the vial. Recap, mix thoroughly and briefly centrifuge to collect the volume at the bottom of the vial. Use this intermediate dilution when calculating final dilutions as recommended below. Store the vial at -20°C or below after dilution. Avoid cycles of freezing and thawing.
Stabilizer: None	
Preservatives: 0.01% (w/v) Sodium Azide	
Store vial at -20° C or below prior to opening. This vial contains a relatively low volume of	Storage Temperature: -20°C

Application Recommendation

Application: ELISA

Manufacturer

BIOZOL
Diagnostica Vertrieb GmbH
Oehleckerring 11-13
22419 Hamburg

Phone +49 (89) 3799 666 6
Fax +49 (89) 3799 666 99
E-mail info@biozol.de
www.biozol.de

www.dianova.com

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Dilution: ELISA 1:10.000-1:50.000, Western Blot (WB) 1:1.000-1:5.000

Application Note:

Anti-VhH antibody has been tested by ELISA and Western Blot. Specific conditions for reactivity should be optimized by the end user. Some cross-reactivity to E.coli proteins may be observed.

Background Information

Rabbit Anti-VhH antibody can be used to detect single domain VhH antibodies. The single-domain antibody (sdAb) is a small (12 - 14 kDa) antibody fragment that consists of a monomeric variable domain derived from the heavy chain, also called a VhH antibody. These heavy chain only Fab-like domains have activity that is similar to a whole antibody, and they are able to bind to a specific antigens. SdAb's are derived from camelid species that include llamas, alpacas and camels. Camelids produce both classical (containing heavy and light chain fragments) and non-classical antibody structures (containing only a heavy chain). VhH antibodies are the smallest functional antigen-binding fragment that occurs in nature and these are now being used in biotechnology as a novel antibody scaffold. The small size of the VhH single domain antibody makes it very attractive for use in diagnostic imaging and they have potential for therapeutic activity.

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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