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Datasheet for 100-401-GM6S**VHH Antibody****Overview**

Description:	Anti-VHH (RABBIT) Antibody - 100-401-GM6S
Item No.:	100-401-GM6S
Size:	25 µL
Applications:	ELISA, WB
Reactivity:	Llama
Host Species:	Rabbit

Product Details

Background: 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.

Synonyms:	rabbit anti-VHH Antibody, single-domain antibody (sdAb), camelid VHH antibody
Host Species:	Rabbit
Clonality:	Polyclonal
Format:	IgG

Target Details

Reactivity:	Llama
Immunogen Type:	Native Protein

Immunogen:	This antibody was prepared from whole rabbit serum produced by repeated immunizations with a VHH camelid domain protein.
Purity/Specificity:	Anti-VHH is monospecific antiserum processed by delipidation and defibrination followed by sterile filtration. Anti-VHH antibody detects recombinant VHH proteins, native Llama IgG2 and native Llama IgG3.

Application Details

Tested Applications:	ELISA, WB
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.
Assay Dilutions:	All assays should be optimized by the user. Recommended dilutions (if any) may be listed below.
ELISA:	1:10,000-1:50,000
WB:	1:1,000-1:5,000

Formulation

Physical State:	Liquid (sterile filtered)
Concentration:	80mg/mL by Refractometry
Buffer:	0.02 M Potassium Phosphate, 0.15 M Sodium Chloride, pH 7.2
Preservative:	0.01% (w/v) Sodium Azide
Stabilizer:	None

Shipping & Handling

Shipping Condition:	Dry Ice
Storage Condition:	Store vial at -20° C or below prior to opening. This vial contains a relatively low volume of 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.
Expiration:	Expiration date is one (1) year from date of receipt.

Images



Western Blot

Western Blot Results of Rabbit Anti-VHH Antibody.

Lane 1: Opal Prestained Molecular Weight (p/n MB-210-0500).

Lane 2: Llama IgG1 isotype control (p/n 025-0140) reduced [0.05µg].

Lane 3: Llama IgG2 isotype control (p/n 025-0144) reduced [0.05µg].

Lane 4: Llama IgG3 isotype control (p/n 025-0143) reduced [0.05µg].

Lane 5: VHH Control Protein (p/n 000-001-GM6) reduced [0.05µg].

Primary Antibody: Anti-VHH [Rabbit] Antibody at 1:1000 overnight at 2-8°C.

Secondary Antibody: Anti-Rabbit IgG [Goat] Peroxidase Conjugated (p/n 611-1302) at 1:40,000 for 30mins at RT.

Block: Blocking Buffer for Fluorescent Western Blotting (p/n MB-070) for 1hr at RT.

Expected: recognizes the VHH protein ~15kDa and detects the llama IgG1, IgG2 and IgG3 proteins.

Exposure: 6.8 sec.



Western Blot

Western Blot of Rabbit anti-VHH Antibody. Lane 1: HeLa whole cell lysate spiked with VHH single-domain antibody.

Load: 10 µg lysate with 25 ng VHH. Primary antibody:

Rabbit anti-VHH Antibody at 1:1,000 o/n at 4°C. Secondary antibody: HRP Gt-a-Rb IgG (p/n 611-103-122) at 1:40,000 for 30 min at RT. Block: MB-070 for 30 min at RT.

Predicted/Observed size: 15 kDa, 15 kDa for VHH.

Disclaimer

This product is for research use only and is not intended for therapeutic or diagnostic applications. Please contact a technical service representative for more information. All products of animal origin manufactured by Rockland Immunochemicals are derived from starting materials of North American origin. Collection was performed in United States Department of Agriculture (USDA) inspected facilities and all materials have been inspected and certified to be free of disease and suitable for exportation. All properties listed are typical characteristics and are not specifications. All suggestions and data are offered in good faith but without guarantee as conditions and methods of use of our products are beyond our control. All claims must be made within 30 days following the date of delivery. The prospective user must determine the suitability of our materials before adopting them on a commercial scale. Suggested uses of our products are not recommendations to use our products in violation of any patent or as a license under any patent of Rockland Immunochemicals, Inc. If you require a commercial license to use this material and do not have one, then return this material, unopened to: Rockland Inc., P.O. BOX 5199, Limerick, Pennsylvania, USA.