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- Trockeneiszuschlag
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Datasheet for 200-401-GM6S

VHH Antibody

Overview

Description:	Anti-VHH (RABBIT) Antibody - 200-401-GM6S
Item No.:	200-401-GM6S
Size:	25 µL
Applications:	ELISA, WB, IF
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:	Recombinant 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 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.

Application Details

Tested Applications:	ELISA, WB
Suggested Applications:	IF (Based on references)
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

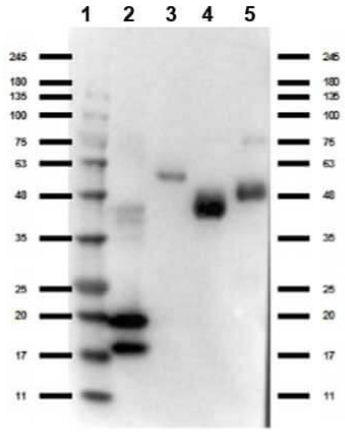
Physical State:	Liquid (sterile filtered)
Concentration:	1.3 mg/mL by UV absorbance at 280 nm
Buffer:	0.02 M Potassium Phosphate, 0.15 M Sodium Chloride, pH 7.2
Preservative:	0.01% (w/v) Sodium Azide
Stabilizer:	None

Shipping & Handling

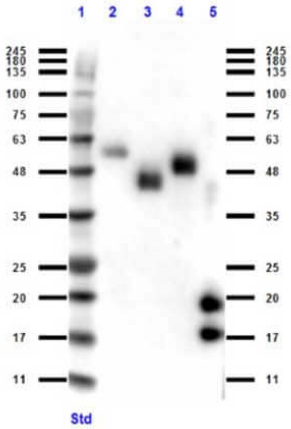
Shipping Condition:	Dry Ice
Storage Condition:	Store vial at -20° C or below prior to opening. This vial contains a relatively low volume of reagent (25 µL). To minimize loss of volume dilute 1:10 by adding 225 µL of the buffer stated above directly to the vial. Recap, mix thoroughly and briefly centrifuge 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 of Rabbit Anti-VHH Antibody detecting VHH. Lane 1: MW Ladder Opal pre-stained (p/n MB-210-0500). Lane 2: VHH. Load: 0.50 µg per lane. Primary Antibody: Anti-VhHH Antibody (p/n 200-401-GM6) at 1 ug/mL for overnight at 4℃. Secondary Antibody: Rabbit Secondary HRP Antibody (p/n 611-103-122) at 1:70,000 for 30 min at RT. Block: MB-070 at RT for 30 min. Predicted/Observed size: ~15 kDa.



Western Blot
Western Blot of Rabbit anti-VHH antibody. Lane 1: Ladder (Opal Prestained). Lane 2: VHH protein (p/n 000-001-GM6). Lane 3: Llama IgG1 protein (p/n 025-0140). Lane 4: Llama IgG2 protein (p/n 025-0144). Lane 5: Llama IgG3 protein (p/n 025-0143). Load: 50 ng per lane. Primary antibody: VHH antibody at 1:1000 for overnight at 4°C. Secondary antibody: Gt-a-Rb HRP (611-103-122) rabbit secondary antibody at 1:70,000 for 30 min at RT. Block: MB-070 for 30 min at RT. Predicted/Observed size: expect 15 and 18 kda band in VHH protein and reactivity with Llama IgG isotypes.



Western Blot
Western Blot of Rabbit anti-VHH antibody. Lane 1: MW ladder (opal pre-stained) p/n (MB-210-0500). Lane 2: Llama IgG1 protein (p/n 025-0140). Lane 3: Llama IgG2 protein (p/n 025-0144). Lane 4: Llama IgG3 protein (p/n 025-0143). Lane 5: VhH protein (p/n 000-001-GM6). Load: 50 ng per lane. Primary antibody: VHH antibody at 1:1000 for overnight at 4°C. Secondary antibody: rabbit secondary HRP antibody (p/n 611-103-122) at 1:40,000 for 45 min at RT. Block: BlockOut (p/n MB-070) overnight at 4°C. Predicted/Observed size: expect 15 and 18 kda band in VHH protein and reactivity with Llama IgG isotypes.

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.

References

- Singh, S et al. A Broad-Based Characterization of a Cell-Penetrating, Single Domain Camelid Bi-Specific Antibody Monomer That Targets STAT3 and KRAS Dependent Cancers. *International Journal of Molecular Sciences* (2022)

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