bs-4521R **[Primary Antibody]**

FMDV VP1 Rabbit pAb

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DATASHEET

Host: Rabbit **Isotype:** IgG

Clonality: Polyclonal

Target: FMDV VP1

Immunogen: KLH conjugated synthetic peptide derived from FMDV Polyprotein (VP1 protein): 661-760/2188.

Purification: affinity purified by Protein A

Concentration: 1mg/ml

Storage: 0.01M TBS (pH7.4) with 1% BSA, 0.02% Proclin300 and 50% Glycerol.
Shipped at 4°C. Store at -20°C for one year. Avoid repeated freeze/thaw cycles.

Background: The foot-and-mouth disease virus (FMDV) is the pathogen that causes foot-and-mouth disease. It is a picornavirus, the prototypical member of the Aphthovirus genus. The disease, which causes vesicles (blisters) in the mouth and feet of bovids, suids, ovids, caprids and other cloven-hoofed animals is highly infectious and a major plague of animal farming. The virus particle (25-30 nm) has an icosahedral capsid made of protein, without envelope, containing a single strand of ribonucleic acid (RNA) containing a positive encoding of its genome. When the virus comes in contact with the membrane of a host cell, it binds to a receptor site and triggers a folding-in of the membrane. Once the virus is inside the host cell, the capsid dissolves, and the RNA gets replicated, and translated into viral proteins by the cell's ribosomes using a cap-independent mechanism driven by the internal ribosome entry site element. The foot-and-mouth disease virus occurs in seven major serotypes: O, A, C, SAT-1, SAT-2, SAT-3, and Asia-1. These serotypes show some regionality, and the O serotype is most common.

Applications: **IHC-P** (1:100-500)
IHC-F (1:100-500)
IF (1:100-500)
ELISA (1:5000-10000)

Reactivity: (predicted: FMDV)

Predicted MW.: 23/240 kDa

SELECTED CITATIONS

- **[IF=4.464]** Xiaoli Qin. et al. Toluidine blue-assisted synthesis of functionalized M (M=Cu, Co, Zn)-metal-organic frameworks for electrochemical immunoassay of proteins. J Electroanal Chem. 2022 Mar;:116186 Other ;Other. 10.1016/j.jelechem.2022.116186
- **[IF=0]** Jeong, J.-P. et al. Detection of Foot-and-Mouth Disease Virus Using a Polydiacetylene Immunosensor on Solid-Liquid Phase.Macromol. Mater. Eng. 2018,303(6), 1700640. Other ;FMD Vaccine. 10.1002/mame.201700640