SunLong Biotech Co.,LTD
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[Primary Antibody]

Rabbit Anti-FMDV Polyclonal Antibody

Catalog Number: SLA0138

FOR RESEARCH USE ONLY

[DATASHEET]

Host:	Rabbit
Isotype:	IgG
Clonality:	Polyclonal
Target:	FMDV
Immunogen:	Recombinant FMDV VP1 (type O) protein
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℃. Store at -20℃ for one year. Avoid repeated freeze/thaw cycles.
Applications:	WB (1:500-2000) ELISA (1:2000-10000) Not yet tested in other applications. Optimal working dilutions must be determined by the end user.
Reactivity:	FMDV
Predicted MW.:	259 kDa
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,

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	and the O serotype is most common.

[VALIDATION IMAGES]

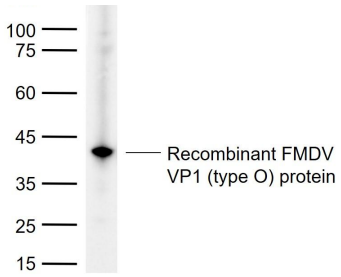


Figure 1. Sample: Lane 1: Recombinant FMDV VP1 (type O) protein, Sumo & His(SL41028P) Primary: Anti-FMDV VP1 (SLA0138) at 1/1000 dilution Secondary: IRDye800CW Goat Anti-Rabbit IgG at 1/20000 dilution Predicted band size: 259 kDa Observed band size: 42 kDa
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