

bsm-41049M-HRP**[Primary Antibody]**

FMDV VP1 protein (type O) Mouse mAb, HRP conjugated

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— DATASHEET —

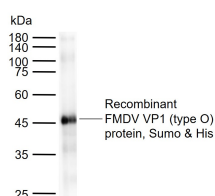
Host: Mouse**Isotype:** IgG1**Clonality:** Monoclonal**CloneNo.:** 2F11**Target:** FMDV VP1 protein (type O)**Purification:** affinity purified by Protein A**Concentration:** 1mg/ml**Storage:** 0.01M TBS (pH7.4) with 1% BSA, 0.02% Proclin300 and 50% Glycerol.

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: WB (1:500-2000)**ELISA** (1:5000-10000)**Reactivity:** FMDV

— VALIDATION IMAGES —



Sample: Lane 1: Recombinant FMDV VP1 (type O) protein, Sumo & His
Primary: Anti-FMDV VP1 protein (type O) (bsm-41049M) at 1/1000 dilution
Secondary: IRDye800CW Goat Anti-Mouse IgG at 1/20000 dilution
Predicted band size: kDa
Observed band size: 46 kDa