bs-10815R **[Primary Antibody]**

FMDV VP1 Rabbit pAb

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DATASHEET

Host: Rabbit **Isotype:** IgG

Clonality: Polyclonal

Target: FMDV VP1

Purification: affinity purified by Protein A

Concentration: 1mg/ml

Storage: Preservative: 0.02% Proclin300, Constituents: 1% BSA, 0.01M PBS, pH7.4.
Shipped at 4°C. Store at -20°C for one year. Avoid repeated freeze/thaw cycles.

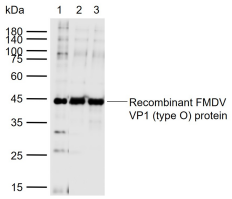
Background: The foot-and-mouth disease virus (FMDV) is the pathogen that causes foot-and-mouth disease. It is a picornavirus, the prototypical member of the Aphthovirus genus. The disease, which causes vesicles (blisters) in the mouth and feet of bovids, suids, ovids, caprids and other cloven-hoofed 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: Other, FMDV

Predicted MW.: 240 kDa

VALIDATION IMAGES



Sample: Lane 1: Recombinant FMDV VP1 protein, Sumo & His(bs-10815P) Lane 2: Recombinant FMDV VP1 (type O) protein, Sumo & His(bs-41028P) Lane 3: Recombinant FMDV VP1 (type O) protein, Sumo & His(bs-41049P) Primary: Anti-FMDV VP1 (bs-10815R) at 1/1000 dilution Secondary: IRDye800CW Goat Anti-Rabbit IgG at 1/20000 dilution Predicted band size: 240 kDa Observed band size: 45 kDa

SELECTED CITATIONS

- **[IF=2.6]** Weijun Zeng. et al.Foot-and-mouth disease virus-like particle vaccine incorporating dominant T and B cell epitopes: enhanced immune response in piglets with CD154 molecules.frontiers in veterinary science.2025 Feb 19:12:1540102. Western blot ;. 40046411