### Descriptive Information

**Description:** MOUSE ANTI FOOT-AND-MOUTH DISEASE VIRUS NON-STRUCTURAL PROTEIN 2a

**Specificity:** FOOT-AND-MOUTH DISEASE VIRUS NON-STRUCTURAL PROTEIN 2a

**Other names:** FMDV

**Format:** Purified

**Product Type:** Monoclonal Antibody

**Clone:** 1G2

**Isotype:** IgG2a

**Quantity:** 0.2 mg

### Applications

This product has been reported to work in the following applications. This information is derived from testing within our laboratories, peer-reviewed publications or personal communications from the originators. Please refer to references indicated for further information. For general protocol recommendations, please visit [www.bio-rad-antibodies.com/protocols](http://www.bio-rad-antibodies.com/protocols).

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<th>Application</th>
<th>Yes</th>
<th>No</th>
<th>Not Determined</th>
<th>Suggested Dilution</th>
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Where this antibody has not been tested for use in a particular technique this does not necessarily exclude its use in such procedures. Suggested working dilutions are given as a guide only. It is recommended that the user titrates the antibody for use in their own system using appropriate negative/positive controls.

### Target Species

Viral

### Product Form

Purified IgG - liquid

### Preparation

Purified IgG prepared by affinity chromatography on Protein G

### Buffer Solution

Phosphate buffered saline

### Preservative Stabilisers

0.09% Sodium Azide

### Approx. Protein Concentrations

IgG concentration 1.0 mg/ml

### Immunogen

Recombinant FMDV non structural protein 2a.
Mouse anti Foot-and-Mouth Disease Virus Non-Structural Protein 2a antibody, clone 1G2 recognizes the 2a non-structural protein of Foot-and-mouth disease virus (FMDV). Foot-and-mouth disease virus is a nonenveloped icosahedral Aphthovirus that contains single-stranded RNA. Foot-and-mouth disease is a highly contagious and sometimes fatal disease of cattle, pigs and other cloven-hoofed animals. The disease is characterised by high fever and blisters inside the mouth and on the feet. Although it doesn’t have a high mortality rate, the disease has debilitating effects, including weight loss and decrease in milk production, resulting in detrimental economic ramifications. The virus is spread through direct contact.

The non-structural proteins are necessary for viral replication and as such mutations in this area are probably less well tolerated than in the rest of the genome. Non-structural proteins have been targeted as possible diagnostic targets to distinguish between infected and vaccinated animals.

Note: clone 1G2 was previously described in error to recognize Non-Structural Protein 3a.

References


Storage

Store at +4°C or at -20°C if preferred.

This product should be stored undiluted.

Storage in frost free freezers is not recommended. Avoid repeated freezing and thawing as this may denature the antibody. Should this product contain a precipitate we recommend microcentrifugation before use.

Guarantee

18 months from date of despatch.

Health And Safety Information

Material Safety Datasheet documentation #10040 available at:


Regulatory

For research purposes only

Related Products

Recommended Secondary Antibodies

- Goat Anti Mouse IgG IgA IgM (STAR87...) Alk. Phos., HRP
- Goat Anti Mouse IgG (STAR77...) HRP
- Rabbit Anti Mouse IgG (STAR12...) RPE
- Rabbit Anti Mouse IgG (STAR8...) DyLight®800
- Rabbit Anti Mouse IgG (STAR13...) HRP
- Goat Anti Mouse IgG (STAR76...) RPE
- Goat Anti Mouse IgG (STAR70...) FITC
- Goat Anti Mouse IgG (Fc) (STAR120...) FITC, HRP
- Rabbit Anti Mouse IgG (STAR9...) FITC
- Human Anti Mouse IgG2a (HCA037...) FITC, HRP
- Goat Anti Mouse IgG (H/L) (STAR117...) Alk. Phos., DyLight®488, DyLight®680, DyLight®800, FITC, HRP