Datasheet: MCA2854

**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

**RRID** AB_1125315

**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

Regulatory
For research purposes only

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