

## Datasheet: MCA2854

<b>Description:</b>	MOUSE ANTI FOOT-AND-MOUTH DISEASE VIRUS NON-STRUCTURAL PROTEIN 2a
<b>Specificity:</b>	FOOT-AND-MOUTH DISEASE VIRUS NON-STRUCTURAL PROTEIN 2a
<b>Other names:</b>	FMDV
<b>Format:</b>	Purified
<b>Product Type:</b>	Monoclonal Antibody
<b>Clone:</b>	1G2
<b>Isotype:</b>	IgG2a
<b>Quantity:</b>	0.2 mg

## Product Details

### 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).

	Yes	No	Not Determined	Suggested Dilution
Flow Cytometry			▪	
Immunohistology - Frozen			▪	
Immunohistology - Paraffin			▪	
ELISA	▪			
Immunoprecipitation			▪	
Western Blotting			▪	

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.

<b>Target Species</b>	Viral
<b>Product Form</b>	Purified IgG - liquid
<b>Preparation</b>	Purified IgG prepared by affinity chromatography on Protein G from ascites
<b>Buffer Solution</b>	Phosphate buffered saline
<b>Preservative Stabilisers</b>	<0.1% Sodium Azide (NaN <sub>3</sub> )

<b>Approx. Protein Concentrations</b>	IgG concentration 1.0 mg/ml
<b>Immunogen</b>	Recombinant FMDV non structural protein 2a.
<b>External Database Links</b>	<b>UniProt:</b> <a href="#">P49303</a> <a href="#">Related reagents</a>
<b>RRID</b>	AB_1125315
<b>Specificity</b>	<p><b>Mouse anti Foot-and-Mouth Disease Virus Non-Structural Protein 2a antibody, clone 1G2</b> 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.</p> <p>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..</p> <p>Note: clone 1G2 was previously described in error to recognize Non-Structural Protein 3a.</p>
<b>References</b>	1. Grubman, M. J. and Baxt, B. (2004) Foot-and-mouth disease. <a href="#">Clin Microbiol Rev. 17: 465-493.</a>
<b>Storage</b>	<p>This product is shipped at ambient temperature. It is recommended to aliquot and store at -20°C on receipt. When thawed, aliquot the sample as needed. Keep aliquots at 2-8°C for short term use (up to 4 weeks) and store the remaining aliquots at -20°C.</p> <p>Avoid repeated freezing and thawing as this may denature the antibody. Storage in frost-free freezers is not recommended.</p>
<b>Guarantee</b>	12 months from date of despatch
<b>Health And Safety Information</b>	Material Safety Datasheet documentation #10040 available at: 10040: <a href="https://www.bio-rad-antibodies.com/uploads/MSDS/10040.pdf">https://www.bio-rad-antibodies.com/uploads/MSDS/10040.pdf</a>
<b>Regulatory</b>	For research purposes only

## Related Products

### Recommended Secondary Antibodies

Goat Anti Mouse IgG (STAR77...) [HRP](#)  
 Rabbit Anti Mouse IgG (STAR12...) [RPE](#)  
 Goat Anti Mouse IgG (STAR70...) [FITC](#)  
 Goat Anti Mouse IgG IgA IgM (STAR87...) [Alk. Phos.](#), [HRP](#)  
 Rabbit Anti Mouse IgG (STAR9...) [FITC](#)  
 Goat Anti Mouse IgG (STAR76...) [RPE](#)  
 Goat Anti Mouse IgG (H/L) (STAR117...) [Alk. Phos.](#), [DyLight®488](#), [DyLight®550](#),  
[DyLight®650](#), [DyLight®680](#), [DyLight®800](#),  
[FITC](#), [HRP](#)  
 Rabbit Anti Mouse IgG (STAR13...) [HRP](#)  
 Goat Anti Mouse IgG (Fc) (STAR120...) [FITC](#), [HRP](#)

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To find a batch/lot specific datasheet for this product, please use our online search tool at: [bio-rad-antibodies.com/datasheets](https://bio-rad-antibodies.com/datasheets)

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**Printed on 16 Sep 2022**

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