

Datasheet: MCA2853

Description:	MOUSE ANTI FOOT-AND-MOUTH DISEASE VIRUS SEROTYPE O1
Specificity:	FOOT-AND-MOUTH DISEASE VIRUS SEROTYPE O1
Other names:	FMDV
Format:	Purified
Product Type:	Monoclonal Antibody
Clone:	2D2
Isotype:	IgG2a
Quantity:	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.

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

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	Whole, inactivated foot-and-mouth disease virus (FMDV).
External Database	UniProt:

Links [P03305](#) [Related reagents](#)

Fusion Partners Spleen cells from immunised Balb/c mice were fused with cells of the 2p2/0 myeloma cell line.

Specificity **Mouse anti Foot-and-Mouth Disease Virus Serotype O1 antibody, clone 2D2** recognizes foot-and-mouth disease virus (FMDV), the causative agent of foot-and-mouth disease (FMD). 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.

Seven different serotypes of FMDV have been identified and multiple subtypes occur within each serotype. Mouse anti Foot-and-Mouth Disease Virus Serotype O1 antibody, clone 2D2 recognizes the O1 serotype.

References

1. Grubman, M.J. & Baxt, B. (2004) Foot-and-mouth disease. [Clin Microbiol Rev. 17 \(2\): 465-93.](#)
2. Moreno, E. & Perales, C. (2016) Distance effects during polyprotein processing in the complementation between defective FMDV RNAs. [J Gen Virol. 97 \(7\): 1575-83.](#)
3. García-briones, M. *et al.* (2006) Differential distribution of non-structural proteins of foot-and-mouth disease virus in BHK-21 cells. [Virology. 349 \(2\): 409-21.](#)

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.

Shelf Life 18 months from date of despatch.

Health And Safety Information Material Safety Datasheet documentation available at:
Material Safety Datasheet Documentation #10040 available at:
<https://www.bio-rad-antibodies.com/uploads/MSDS/10040.pdf>

Regulatory For research purposes only

Related Products

Recommended Secondary Antibodies

Goat Anti Mouse IgG (STAR76...) [RPE](#)
Goat Anti Mouse IgG IgA IgM (STAR87...) [Alk. Phos.](#), [HRP](#)
Goat Anti Mouse IgG (H/L) (STAR117...) [Alk. Phos.](#), [DyLight@488](#), [DyLight@549](#),
[DyLight@649](#), [DyLight@680](#), [DyLight@800](#),
[FITC](#), [HRP](#)
Rabbit Anti Mouse IgG (STAR9...) [FITC](#)
Goat Anti Mouse IgG (STAR77...) [HRP](#)
Rabbit Anti Mouse IgG (STAR12...) [RPE](#)
Goat Anti Mouse IgG (Fc) (STAR120...) [FITC](#), [HRP](#)

Rabbit Anti Mouse IgG (STAR8...) [DyLight®800](#)
Goat Anti Mouse IgG (STAR70...) [FITC](#)
Human Anti Mouse IgG2a (HCA037...) [FITC](#), [HRP](#)
Rabbit Anti Mouse IgG (STAR13...) [HRP](#)

North & South America	Tel: +1 800 265 7376 Fax: +1 919 878 3751 Email: antibody_sales_us@bio-rad.com	Worldwide	Tel: +44 (0)1865 852 700 Fax: +44 (0)1865 852 739 Email: antibody_sales_uk@bio-rad.com	Europe	Tel: +49 (0) 89 8090 95 21 Fax: +49 (0) 89 8090 95 50 Email: antibody_sales_de@bio-rad.com
----------------------------------	---	------------------	---	---------------	---

'M282421:160219'

Printed on 19 Feb 2018

© 2018 Bio-Rad Laboratories Inc | [Legal](#) | [Imprint](#)