

Datasheet: MCA2194

Description:	MOUSE ANTI FELINE CORONAVIRUS
Specificity:	CORONAVIRUS
Format:	Purified
Product Type:	Monoclonal Antibody
Clone:	FIPV3-70
Isotype:	IgG2a
Quantity:	0.25 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 (1)	▪			
ELISA	▪			
Immunoprecipitation			▪	
Western Blotting	▪			
Immunofluorescence	▪			

Where this product 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 product for use in their own system using appropriate negative/positive controls.

(1) This product requires antigen retrieval using heat treatment prior to staining of paraffin sections. Sodium citrate buffer pH 6.0 is recommended for this purpose.

Target Species	Viral
Product Form	Purified IgG - liquid
Preparation	Purified IgG prepared by affinity chromatography on Protein A from tissue culture supernatant
Buffer Solution	Phosphate buffered saline
Preservative	< 0.1% sodium azide (NaN ₃)

Stabilisers

Approx. Protein Concentrations IgG concentration 1.0 mg/ml

Immunogen Coronavirus cocktail.

RRID AB_323968

Specificity **Mouse anti Feline Coronavirus antibody, clone FIPV3-70** reacts with feline infectious peritonitis virus (FIPV) type 1 and 2 and is specific for the nucleocapsid. It is also known to react with canine coronavirus (CCV), pig coronavirus transmissible gastroenteritis virus (TGEV) and ferret coronavirus. Some specific activity has been detected against bovine coronavirus (BCV).

Mouse anti Feline Coronavirus antibody, clone FIPV3-70 does not recognize Feline Leukemia virus, Feline Immunodeficiency virus, Feline Calcivirus, Feline Herpes virus, Canine Adenovirus (type 2), Canine Distemper virus, Canine Parvovirus and Canine Parainfluenza virus.

It has been reported that clone FIPV3 recognizes the SARS-Cov-2 core protein ([Nardacci et al. 2020](#)).

Western Blotting Under reducing conditions Mouse anti Feline Coronavirus antibody, clone FIPV3-70 detects a band of 50-56 kDa that represents the nucleocapsid.protein and an additional band 46 kDa in reducing gels with CCV as antigen.

References

1. Kipar, A. *et al.* (1998) Fatal enteritis associated with coronavirus infection in cats. [J Comp Pathol. 119 \(1\): 1-14.](#)
 2. Kipar, A. *et al.* (2000) Expression of viral proteins in feline leukemia virus-associated enteritis. [Vet Pathol. 37 \(2\): 129-36.](#)
 3. Michimae, Y. *et al.* (2010) The First Case of Feline Infectious Peritonitis-like Pyogranuloma in a Ferret Infected by Coronavirus in Japan. [J Toxicol Pathol. 23 \(2\): 99-101.](#)
 4. Suderman, M.T. *et al.* (2006) Three-Dimensional Human Bronchial-Tracheal Epithelial Tissue-Like Assemblies (TLAs) as Hosts For Severe Acute Respiratory Syndrome (SARS)-CoV Infection [NASA/TP-2006-213723](#)
 5. Vogel, L. *et al.* (2010) Pathogenic characteristics of persistent feline enteric coronavirus infection in cats. [Vet Res. 41 \(5\): 71.](#)
 6. Cony, F.G. *et al.* (2019) Clinical and pathological aspects of idiopathic pulmonary fibrosis in cats [Pesquisa Veterinária Brasileira. 39 \(2\): 134-41.](#)
 7. Stranieri, A. *et al.* (2020) Concordance between Histology, Immunohistochemistry, and RT-PCR in the Diagnosis of Feline Infectious Peritonitis [Pathogens. 9 \(10\): 852.](#)
 8. Stranieri, A. *et al.* (2020) Preliminary investigation on feline coronavirus presence in the reproductive tract of the tom cat as a potential route of viral transmission. [J Feline Med Surg. 22 \(2\): 178-85.](#)
 9. Meazzi, S. *et al.* (2019) Feline gut microbiota composition in association with feline coronavirus infection: A pilot study. [Res Vet Sci. 125: 272-8.](#)
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Storage 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.

Avoid repeated freezing and thawing as this may denature the antibody. Storage in frost-free freezers is not recommended.

Guarantee 12 months from date of despatch

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

Regulatory For research purposes only

Related Products

Recommended Secondary Antibodies

Goat Anti Mouse IgG (STAR70...) [FITC](#)

Rabbit Anti Mouse IgG (STAR13...) [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
'M413242:221121'

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