Datasheet

Catalog Number:	MBS212561
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.

	Yes	No	Not Determined	Suggested Dilution
Flow Cytometry	▪			
Immunohistology - Frozen	▪			
Immunohistology - Paraffin (1)	▪			
ELISA	▪			
Immunoprecipitation			▪	
Western Blotting	▪			
Immunofluorescence	▪			

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 systems with 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 Stabilisers	0.05% Sodium Azide
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 known to be 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 exhibits negative reactivity against Feline Leukemia virus, Feline Immunodeficiency virus, Feline Calcivirus, Feline Herpes virus, Canine Adenovirus (type 2), Canine Distemper virus, Canine Parvovirus and Canine Parainfluenza virus.
Western Blotting	Under reducing conditions, MCA2194 detects a specific band of 50-56 kDa that represents the nucleocapsid. MCA2194 detects specific bands at 56 and 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. Pesq. Vet. Bras. 39(2):134-41.
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 upon request.
Regulatory	For research purposes only

Related Products

Recommended Secondary Antibodies

Rabbit Anti Mouse IgG
Goat Anti Mouse IgG