

SM1870P**Monoclonal Antibody to Feline Coronavirus - Purified**

Quantity:	0.25 mg
Concentration:	1.0 mg/ml
Host / Isotype:	Mouse / IgG2a
Recommended Isotype Controls:	AM03096PU-N
Clone:	FIPV3-70
Immunogen:	Coronavirus cocktail.
Format:	State: Liquid purified IgG fraction. Purification: Affinity Chromatography on Protein A. Buffer System: PBS, pH 7.2 containing 0.05% Sodium Azide as preservative.
Applications:	Flow Cytometry. Immunofluorescence. ELISA: This antibody can be used as a Capture reagent in ELISA assays in combination with AM01094BT-N as a detection reagent. Western Blot: Western blotting, using this antibody under reducing conditions, results in a specific band of 50-56 kDa that represents the nucleocapsid. Immunohistochemistry on Frozen and Paraffin Sections: Microwave induced antigen retrieval in 10 mM citrate buffer is recommended prior to staining of paraffin embedded sections. Other applications not tested. Optimal dilutions are dependent on conditions and should be determined by the user.
Specificity:	This antibody 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). 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.
Storage:	Store the antibody undiluted at 2-8°C for one month or (in aliquots) at -20°C for longer. Avoid repeated freezing and thawing. Shelf life: one year from despatch.
General Readings:	1. Kipar A, Kremendahl J, Addie DD, Leukert W, Grant CK, Reinacher M. Fatal enteritis associated with coronavirus infection in cats. J Comp Pathol. 1998 Jul;119(1):1-14. PubMed PMID: 9717123. 2. Kipar A, Kremendahl J, Grant CK, von Bothmer I, Reinacher M. Expression of viral proteins in feline leukemia virus-associated enteritis. Vet Pathol. 2000 Mar;37(2):129-36. PubMed PMID: 10714641.