



RayBiotech, Inc.

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Certificate of Analysis and Data Sheet

MOUSE ANTI-FELINE CORONAVIRUS

With HRP-conjugated Secondary Antibody

Catalog No.
DS-MB-01049

Target Species
Viral

Isotype
IgG1

Preparation

Purification: Purified IgG prepared by affinity chromatography on Protein A from tissue culture supernatant

Immunogen: Coronavirus cocktail

Specificity

DS-MB-01049 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).

This antibody 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.

Formulation

Product Type: Monoclonal Antibody

Product Form: Purified IgG - liquid

Buffer Solution: Phosphate buffered saline pH 7.2

Preservative Stabilizers: 0.05% Sodium Azide (NaN_3)

Approx. Protein Concentrations: IgG concentration 1.0 mg/ml

Storage

Store at +4°C or at -20°C if preferred.

Storage in frost-free freezers is not recommended. This product should be stored undiluted. 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 dispatch.

Reference

1. Kipar, A. et al. (1998) Fatal enteritis associated with coronavirus infection in cats. J. Comp. Path. 119: 1 - 14.
2. Kipar, A. et al. (2000) Expression of viral proteins in feline leukemia virus-associated enteritis. Vet. Pathol. 37: 129 - 136.

The products are furnished for LABORATORY RESEARCH USE ONLY.
Not for diagnostic or therapeutic use.



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Applications

Options Functions	YES	NO	Not determined	Recommended Work dilution or concentration
Elisa (1)	•			
Immunohistology - Paraffin(2)	•			
Immunohistology - Frozen	•			
Immunohistology - Resin			•	
Western Blotting (3)	•			
Immunoprecipitation			•	
Immunofluorescence	•			
Flow cytometry	•			

Note: Other applications are not tested yet. Optimal dilutions should be determined by each laboratory for each application.

- (1) This antibody can be used as a capture reagent in sandwich ELISA assays in combination with DS-MB-01050 as a detection reagent
- (2) Microwave induced antigen retrieval in 10 mM citrate buffer is recommended prior to staining of paraffin embedded sections
- (3) Under reducing conditions, DS-MB-01049 detects a specific band of 50-56 kDa that represents the nucleocapsid. DS-MB-01049 detects specific bands at 56 and 46 kDa in reducing gels with CCV as antigen.

Secondary Antibody Applications

Options Functions	YES	NO	Not determined	Recommended Work dilution or concentration
Immunoassay (ELISA, Western blot)	•			1:5,000-1:10,000

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