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# Certificate of Analysis and Data Sheet MOUSE ANTI-FELINE CORONAVIRUS:Biotin

**Catalog No.**  
DS-MB-01050

**Target Species**  
Viral

**Isotype**  
IgG1

## Preparation

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

## Specificity

DS-MB-01050 recognizes feline coronavirus and feline infectious peritonitis virus (FIPV). Feline coronavirus is a common infection of cats worldwide, which may or may not cause a mild respiratory infection. Mutation of this virus into FIPV however, is responsible for the fatal condition known as effusive or non-effusive feline infectious peritonitis (FIP).

## Formulation

**Product Type:** Monoclonal Antibody

**Product Form:** Purified IgG conjugated to Biotin - liquid

**Buffer Solution:** Phosphate buffered saline, pH 7.2

**Preservative Stabilizers:** 0.05% Sodium Azide ( $\text{NaN}_3$ )

**Approx. Protein Concentrations:** IgG concentration 1.0 mg/ml

## Storage

Store at  $+4^\circ\text{C}$  or at  $-20^\circ\text{C}$  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. Rottier, P.J.M. et al. (2005) Acquisition of macrophage tropism during the pathogenesis of feline infectious peritonitis is determined by mutations in the feline coronavirus spike protein. J. Virol. 79: 14122-14130.
2. Kipar, A. et al. (1998) Cellular composition, coronavirus antigen expression and production of specific antibodies in lesions in feline infectious peritonitis. Vet Immunol. Immunopathol. 65: 243-257.

## Applications

This product may be used in a direct ELISA or as a detection reagent in a sandwich ELISA.

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

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