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Certificate of Analysis and Data Sheet

MOUSE ANTI CANINE/FELINE PARVOVIRUS

With HRP-conjugated secondary antibody

Catalog No.
DS-MB-00195

Species:
Viral

Isotype:
Mouse Ig G2a

Description

Parvovirus is a genus of the Parvoviridae family of linear, non-segmented single stranded DNA viruses with an average genome size of 5 kbp. Parvoviruses are some of the smallest viruses found in nature. The viral capsid of Parvovirus is composed of three proteins designated VP1, VP2 and VP3, that form an icosahedral structure resistant to pH, solvents and temperature up to 50° C. Within the capsid is a single stranded DNA genome with hairpins formed by sequences of approximately 115 nucleotides long at the 5' and 3' ends. Parvoviruses infect many mammalian species. The human form of Parvovirus (designated B19) is the causative agent of erythema infectiosum, a mild epidemic illness that infects erythroid cells and spreads rapidly. Human Parvovirus (B19) especially poses a risk to pregnant women who can pass the virus to the fetus.

Applications

Table Summary of antibody applications and working conditions

Options Functions	YES	NO	Not determined	Recommended Work dilution or concentration
ELISA	•			
Western Blotting			•	
Immunohistology - frozen			•	
Immunohistology - paraffin	•			
Immunohistology - resin			•	
Immunoprecipitation			•	
Flow Cytometry			•	
Immunofluorescence staining			•	
Neutralization			•	

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.**



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Preparation

Immunogen was recombinant protein derived from Canine/feline parvovirus. This antibody was produced from a hybridoma resulting from the fusion of a mouse myeloma with B cells obtained from a mouse immunized with the immunogen. The IgG fraction of tissue culture supernatant was purified by Protein A affinity chromatography.

Specificity

DS-MB-00195 recognizes canine parvovirus (CPV) and feline parvovirus (FPV). CPV is reported to be a host range variant of FPV which emerged as a result of mutations of the viral capsid. It does not recognize canine adenovirus (type 2); canine coronavirus; canine distemper; canine parainfluenza, feline leukemia virus, and feline immunodeficiency virus.

Reconstitution

Supplied as 250 µg of purified antibody. It is reconstituted with 250 µl of sterile PBS. Its final concentration is 1.0 mg/ml. **Please avoid freeze-thaw cycles.**

Secondary Antibody Applications

Options / Functions	YES	NO	Not determined	Recommended Work dilution or concentration
Immunoassay (ELISA, Western blot)	•			1:5000-1:10000

Storage

Store at -20°C, if not intended for use within a month. Keep it at 4°C and minimize freezing and thawing when use.

Reference

Pattison, J.R., Jones, S.E., Hodgson, J., Davis, L.R., White, J.M., Stroud, C.E. and Murtaza, L. 1981. Parvovirus infections and hypoplastic crisis in sickle-cell anaemia. *Lancet* 1: 664-665.

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