Datasheet: MCA1893

BATCH NUMBER 173338

Description:	MOUSE ANTI CANINE DISTEMPER VIRUS
Specificity:	CANINE DISTEMPER VIRUS
Format:	Purified
Product Type:	Monoclonal Antibody
Clone:	DV2-12
Isotype:	IgG2b
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. For general protocol recommendations, please visit www.bio-rad-antibodies.com/protocols.

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

Where this product 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 product for use in their own system using appropriate negative/positive controls.

(1)**This product requires antigen retrieval using heat treatment prior to staining of paraffin sections. Serotec target unmasking fluid (STUF) product code BUF025A/B/C 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	<0.1% Sodium Azide (NaN_3)
Approx. Protein Concentrations	IgG concentration 1.0mg/ml
RRID	AB_323083
Specificity	**Mouse anti canine distemper virus antibody, clone DV2-12** recognizes canine distemper virus nucleoprotein. In western blots the antibody recognizes bands of ~76 kDa, 68 kDa, 54 kDa and 32 kDa under reducing conditions. Mouse anti canine distemper virus antibody, clone DV2-12 is useful for the detection of CDV in immunofluorescence procedures, in which the staining seen has a cytoplasmic pattern in infected cells. It is also effective in paraffin embedded material. Mouse anti canine distemper virus antibody, clone DV2-12 is anti morbillivirus specific and reacts with phocine distemper virus, raccoon distemper virus and human measles virus. It does not cross react with CAV2, CCV, CPI or CPV.
References	1. Liang, C.T. *et al.* (2007) A non-biotin polymerized horseradish-peroxidase method for the immunohistochemical diagnosis of canine distemper. J Comp Pathol. 136 (1): 57-64. 2. Sánchez-Migallón Guzmán, D. *et al.* (2008) Aleutian disease serology, protein electrophoresis, and pathology of the European mink (*Mustela lutreola*) from Navarra, Spain. J Zoo Wildl Med. 39: 305-13. 3. Bathen-Noethen, A. *et al.* (2008) Magnetic resonance imaging findings in acute canine distemper virus infection. J Small Anim Pract. 49: 460-7. 4. Guvenc, T. *et al.* (2008) Immunohistochemical distribution of alpha B-crystallin in the cerebellum of dogs infected with canine distemper virus. Acta Vet Hung. 56: 117-23. 5. Headley, S.A. and Sukura, A. (2009) Naturally occurring systemic canine distemper virus infection in a pup Braz J Vet Pathol 2: 95-101. 6. Headley, S.A. *et al.* (2009) Molecular detection of Canine distemper virus and the immunohistochemical characterization of the neurologic lesions in naturally occurring old dog encephalitis. J Vet Diagn Invest. 21: 588-97. 7. Headley, S.A. *et al.* (2009) Diagnostic exercise: Tyzzer's disease, distemper, and coccidiosis in a pup. Vet Pathol. 46: 151-4. 8. Spitzbarth, I. *et al.* (2010) Immunohistochemical characterization of inflammatory and glial responses in a case of necrotizing leucoencephalitis in a French bulldog. J Comp Pathol. 142 (2-3): 235-41. 9. Woo, G.H. *et al.* (2010) Canine distemper virus infection in fennec fox (*Vulpes zerda*). J Vet Med Sci. 72 (8): 1075-9. 10. Kubo, M. *et al.* (2010) Meningoencephalitis associated with Sarcocystis spp. in a free-living Japanese raccoon dog (*Nyctereutes procyonoides viverrinus*). J Comp Pathol. 143: 185-9. 11. Kyöstilä, K. *et al.* (2012) A SEL1L mutation links a canine progressive early-onset cerebellar ataxia to the endoplasmic reticulum-associated protein degradation (ERAD) machinery. PLoS Genet. 8 (6): e1002759. 12. Szentiks, C.A. *et al.* (2013) Polar bear encephalitis: establishment of a comprehensive

next-generation pathogen analysis pipeline for captive and free-living wildlife. J Comp Pathol. 2014 May;150(4):474-88.
13. Rentería-Solís, Z. *et al.* (2014) Canine distemper outbreak in raccoons suggests pathogen interspecies transmission amongst alien and native carnivores in urban areas from Germany. Vet Microbiol. 174 (1-2): 50-9.
14. Bak, E.J. & , Woo, G.H. (2016) Canine Distemper in Albino Ferrets (*Mustela putorius furo*). J. Comp Path. 154 (1): 121.
15. Çomakli, S. *et al.* (2020) Canine distemper virus induces downregulation of $GABA_A$, $GABA_B$, and GAT1 expression in brain tissue of dogs. Arch Virol. 165 (6): 1321-31.
16. Iribarnegaray, V. *et al.* (2024) Droplet Digital PCR Enhances Sensitivity of Canine Distemper Virus Detection. Viruses. 16 (11): 1720.
17. Garcia, P.A.T. *et al.* (2022) Distribution of canine distemper virus and nectin-4 in raccoon (*Procyon lotor*) skin. Vet Pathol. 59 (5): 782-786.
18. Kim J-H. *et al*. (2018) Pathological findings of the mixed infection with canine distemper virus and *Streptococcus canis* on farmed badger Korean J Vet Serv, 41 (1), 51-55

Storage	This product is shipped at ambient temperature. It is recommended to aliquot and store at -20°C on receipt. When thawed, aliquot the sample as needed. Keep aliquots at 2-8°C for short term use (up to 4 weeks) and store the remaining aliquots at -20°C. Avoid repeated freezing and thawing as this may denature the antibody. Storage in frost-free freezers is not recommended.
Guarantee	12 months from date of despatch
Health And Safety Information	Material Safety Datasheet documentation #10040 available at: https://www.bio-rad-antibodies.com/SDS/MCA1893
Regulatory	For research purposes only

Related Products

Recommended Secondary Antibodies

Goat Anti Mouse IgG IgA IgM (STAR87...)	HRP
Goat Anti Mouse IgG (STAR70...)	FITC
Goat Anti Mouse IgG (STAR77...)	HRP
Goat Anti Mouse IgG (STAR76...)	RPE
Rabbit Anti Mouse IgG (STAR12...)	RPE
Rabbit Anti Mouse IgG (STAR13...)	HRP
Rabbit Anti Mouse IgG (STAR9...)	FITC
Goat Anti Mouse IgG (Fc) (STAR120...)	FITC, HRP
Goat Anti Mouse IgG (H/L) (STAR117...)	Alk. Phos., DyLight®488, DyLight®550, DyLight®650, DyLight®680, DyLight®800, FITC, HRP

Product inquiries: www.bio-rad-antibodies.com/technical-support

To find a batch/lot specific datasheet for this product, please use our online search tool at: bio-rad-antibodies.com/datasheets

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