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Diagnostik & molekulare Diagnostik



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Lieferung & Zahlungsart

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Zuschläge

- Mindermengenzuschlag
- Trockeneiszuschlag
- Gefahrgutzuschlag
- Expressversand

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Anti-Capsid protein VP1 [MabB] Bulk Size Ab04386-3.0-BT

Isotype and Format: Mouse IgG2b, Kappa

Clone Number: MabB

Alternative Name(s) of Target: Coat protein VP1; CPV-2; FPV; MEV; RPV; ABCD_AD539

UniProt Accession Number of Target Protein: P17455; P04864

Published Application(s): crystallography, HI, NTRL, RIA, ELISA

Published Species Reactivity: canine parvovirus, feline panleukopenia virus, Mink enteritis virus, Raccoon parvovirus

Immunogen: The original antibody was generated by immunizing a Lewis-strain rat with purified infectious (heavy) FPV-b.

Specificity: This antibody is specific for CPV-2's, FPV's capsid (site A). It also cross-reacts with MEV and RPV.

Application Notes: The original version of this antibody (rat IgG2b) was raised and tested against CPA, FPV, and MEV and was found to inhibit and neutralize CPV, FPV, and MEV-a and -b in neutralization and HI assays. It was also used in RIAs. In the HI test, it was found to inhibit CPV-a;-b;-c-;-d; and -e, FPV-a; -b; -c, RPV-a; -b; -c; -d; and -e, and MEV-a; -b; -c; -d; -e; -f; -g; and -h. In the RIA, it was found to react with CPV-d and FPV-b (Parrish and Carmichael, 1983; PMID: 6194613). The Fab version of this antibody was used in a cryoEM analysis of capsid:Fab complexes, and its K_d was estimated via ELISA as $\sim 6.1 \times 10^{-9}$ M (Nelson et al., 2007; PMID: 17217977). The Fab version of this antibody was crystallized, and its structure was determined (Hafenstein et al., 2009; PMID: 19321620).

Antibody First Published in: Parrish & Carmichael Antigenic structure and variation of canine parvovirus type-2, feline panleukopenia virus, and mink enteritis virus. *Virology*. 1983 Sep;129(2):401-14. doi: 10.1016/0042-6822(83)90179-4. [PMID:6194613](#)

Note on publication: The original publication investigates the antigenic structure and variation of canine parvovirus type-2, feline panleukopenia virus, and mink enteritis virus, employing monoclonal antibodies to identify antigenic variants within and between virus isolates from different animal species.

Product Form

Size: 1 mg Purified antibody in bulk size.

Purification: Protein A affinity purified

Supplied In: PBS only.

Storage Recommendation: Store at 4°C for up to 3 months. Note, this antibody is provided without

added preservatives, it is therefore recommended this antibody be handled under sterile conditions. For longer storage, aliquot and store at -20°C.

Concentration: 1 mg/ml.

Important note - This product is for research use only. It is not intended for use in therapeutic or diagnostic procedures for humans or animals.