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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-Rotavirus [2B10 (ARP1; VHH1)] Standard Size Ab03194-1.159

This chimeric mouse antibody was made using the variable domain sequences of the original VHH format for improved compatibility with existing reagents assays and techniques.

Isotype and Format: Mouse IgG1-Fc fusion

Clone Number: 2B10 (ARP1; VHH1)

Alternative Name(s) of Target: RRV; Outer capsid glycoprotein;

UniProt Accession Number of Target Protein:

Published Application(s): neutralize, ELISA

Published Species Reactivity: Rhesus rotavirus strain RRV

Immunogen: The original antibody was generated by immunizing a llama subcutaneously and intramuscularly with 5×10^{12} pfu of Rhesus rotavirus strain RRV (serotype G3).

Specificity: This antibody binds antigens expressed on rotavirus particles. Rotaviruses are the most common cause of infantile diarrhea in the world and most children get infected during the first 5 years of life.

Application Notes: This antibody is capable of binding rotavirus particles present in serum samples in an ELISA. This antibody was capable of reducing the morbidity of rotavirus induced diarrhea in vivo in mice (PMID: 16616802). This antibody is capable of neutralizing rotavirus in vitro and in vivo (PMID: 17083044). This antibody is capable of neutralizing CK5 strain of rotavirus in an in vitro plaque assay with an IC50 of approximately 3 nM. Daily oral administration of 50 or 100µg 2B10 nanobody could either prevent diarrhea or reduce the number of days with diarrhea per mouse pup model (PMID: 21939690). The mouse IgG1 Fc-fusion version of this antibody confers significantly increased protection against rotavirus in a neonatal mouse model of rotavirus-induced diarrhea by reducing the prevalence, duration and severity of diarrhea and the viral load in the small intestines (PMID: 27439689).

Antibody First Published in: Van der Vaart et al. Reduction in morbidity of rotavirus induced diarrhea in mice by yeast produced monovalent llama-derived antibody fragments. Vaccine. 2006 May 8;24(19):4130-7. PMID:16616802

Note on publication: Describes the generation of llama heavy chain antibodies against rotavirus that are capable of reducing morbidity of rotavirus induced diarrhea

Product Form

Size: 100 µg Purified antibody.

Purification: Protein A affinity purified

Supplied In: PBS with 0.02% Proclin 300.

Storage Recommendation: Store at 4°C for up to 3 months. 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.