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Produktinformation



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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-Outer capsid protein VP4 [#9] Bulk Size Ab04397-15.0-BT

This antibody does not have a J-chain and therefore presents as a hexamer, rather than a pentamer.

Isotype and Format: Human IgM, Lambda

Clone Number: #9

Alternative Name(s) of Target: VP4; Hemagglutinin; scFv9; Spike protein VP4

UniProt Accession Number of Target Protein: Q2VE61; P11193; A0A385LUU7; A0A4D6QBC5

Published Application(s): crystallography, neutralization, ELISA, IF

Published Species Reactivity: Human rotavirus A, Rotavirus A

Immunogen: The original antibody was raised from intestinal B cells isolated from adults undergoing bariatric surgery for obesity.

Specificity: This antibody is specific for VP8 of the rotavirus.

Application Notes: The original antibody was used for an ELISA on virus-like particles, bacterially expressed VP8 and VP5 (Nair et al., 2017; PMID:28637924). Further this antibody was used for a neutralization assay by using the antibody virus mixture on MA104 cells (Nair et al., 2017; PMID:28637924), and on MA104, HT-29, CaCo-2, CV-1, and HEK293 cells (Feng et al., 2019; PMID:31403468). This antibody was used for immunofluorescence on RV-infected MA104 cells (Nair et al., 2017; PMID:28637924). The structure of this antibody was determined using x-ray crystallography (Feng et al., 2019; PMID:31403468).

Antibody First Published in: Nair et al. VP4- and VP7-specific antibodies mediate heterotypic immunity to rotavirus in humans *Sci Transl Med.* 2017 Jun 21;9(395):eaam5434. [PMID:28637924](#)

Note on publication: The original paper used RV-specific single cell-sorted intestinal B cells from human adults, barcode-based deep sequencing of antibody repertoires, monoclonal antibody expression, and serologic and functional characterization to demonstrate that infection-induced heterotypic immunoglobulins (Igs) primarily directed to VP5*, the stalk region of the RV attachment protein, VP4, are able to mediate heterotypic protective immunity.

Product Form

Size: 500 µg Purified antibody in bulk size.

Purification: Affinity Purified using a recombinant lectin column

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.