



# SZABO SCANDIC

Part of Europa Biosite

## Produktinformation



Forschungsprodukte & Biochemikalien



Zellkultur & Verbrauchsmaterial



Diagnostik & molekulare Diagnostik



Laborgeräte & Service

Weitere Information auf den folgenden Seiten!  
See the following pages for more information!



### Lieferung & Zahlungsart

siehe unsere [Liefer- und Versandbedingungen](#)

### Zuschläge

- Mindermengenzuschlag
- Trockeneiszuschlag
- Gefahrgutzuschlag
- Expressversand

### SZABO-SCANDIC HandelsgmbH

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## Anti-Outer capsid protein VP4 [#9] Standard Size Ab04397-15.0

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:** 50 µg Purified antibody.

**Purification:** Affinity Purified using a recombinant lectin column

**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.