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- Expressversand

SZABO-SCANDIC HandelsgmbH

Quellenstraße 110, A-1100 Wien

T. +43(0)1 489 3961-0

F. +43(0)1 489 3961-7

mail@szabo-scandic.com

www.szabo-scandic.com

[linkedin.com/company/szaboscandic](https://www.linkedin.com/company/szaboscandic) 

Anti-Rotavirus A capsid glycoprotein VP7 [4F8] Bulk Size Ab03840-5.0-BT

Isotype and Format: Mouse IgG3, Kappa

Clone Number: 4F8

Alternative Name(s) of Target: VP7; RRV VP7; RRV capsid protein; outer capsid glycoprotein; capsid protein; rhesus rotavirus; RRV

UniProt Accession Number of Target Protein: P12476

Published Application(s): crystallization, neutralize, ELISA

Published Species Reactivity: Rotavirus A, Simian Rotavirus

Immunogen: The original antibody was generated by immunizing mice with partially purified RRV.

Specificity: This antibody binds the outer capsid glycoprotein VP7 of the Rotavirus A serotype 3. This antibody can bind rhesus and equine strains of Rotaviruses. Rotavirus is a genus of double-stranded RNA viruses in the family Reoviridae. A rotavirus infection is a contagious disease in which inflammation of the stomach and intestines occurs causing severe, watery diarrhea and vomiting in infants and young children. Nearly every child develops a rotavirus infection before the age of five.

Application Notes: This antibody neutralized serotype 3 rotaviruses RRV and simian rotavirus (SA11) in plaque reduction neutralization assay and protected suckling mice in vivo against serotype 3 (RRV and SA11) but not against OSU or UK virus challenge (Offit et al., 1986; PMID: 2422398). This antibody was used to detect rotaviruses from stools of infants with gastroenteritis using ELISA (Padilla-Noriega et al., 1990; PMID: 2166073). The crystal structure of the Fab fragment of the antibody in complex with rhesus rotavirus (RRV, serotype G3) VP7 trimer was determined. The Fab fragment showed a stronger neutralization activity against RRV than the original format (Aoki et al., 2009; PMID: 19520960).

Antibody First Published in: Shaw et al. Antigenic mapping of the surface proteins of rhesus rotavirus. *Virology*. 1986 Dec;155(2):434-51. [PMID:2431540](#)

Note on publication: Describes the use of antibodies to map the functional topography of the surface proteins of rhesus rotavirus (RRV) that mediate viral neutralization.

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.