



# 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-Envelopment polyprotein [R13] Standard Size Ab04456-10.3

This antibody was created using our proprietary Fc Silent™ engineered Fc domain containing key point mutations that abrogate binding to Fc gamma receptors.

This is a reformatted human IgG1 Fc Silent Fc Silent™ antibody, based on the original human IgG1 format, created for improved compatibility with existing reagents, assays and techniques.

**Isotype and Format:** Human IgG1, Fc Silent™, Lambda

**Clone Number:** R13

**Alternative Name(s) of Target:** GP; M polyprotein

**UniProt Accession Number of Target Protein:** P03518

**Published Application(s):** crystallography, in vivo, neutralization, SPR, WB, ELISA, FC

**Published Species Reactivity:** Rift Valley fever virus

**Immunogen:** This original antibody was raised by screening B cells from a Rift Valley fever patient and sequencing the VH and VL antibody regions.

**Specificity:** This antibody is specific for the DI domain, including residues 171-GMTQEDATCKP-181, G186, P273, K274, and 291-SLKK-294 of rift valley fever glycoprotein N

**Application Notes:** The original version of this antibody was used for an ELISA on rift valley fever Gn and Gc. Further this antibody was used for flow cytometry on HEK293T cells transiently transfected with plasmids of pEGFP-M, pEGFP-Gn, pEGFP-Gc or pEGFP-Gn mutants. This antibody was used for a blocking assay, the rift valley virus was preincubated with this antibody and the mixture was then added to Vero cells. This antibody was used for a western blot on its linear epitope. This antibody was used for surface plasmon resonance on rift valley fever Gn and Gc. A neutralization assay with this antibody was performed using flow cytometry on rift valley virus and Vero cells. The antibodies were added pre-infection. This antibody was used for an in vivo assay. Mice were infected with the rift valley virus. Then post infection they were given this antibody. This led to all of the mice surviving, where the control group all died. Finally the structure of this antibody was determined using x-ray crystallography (Wang et al., 2019; PMID:30936489).

**Antibody First Published in:** Wang et al. Neutralization mechanism of human monoclonal antibodies against Rift Valley fever virus Nat Microbiol. 2019 Jul;4(7):1231-1241. [PMID:30936489](#)

**Note on publication:** The original paper reports the isolation of monoclonal antibodies from a

convalescent patient, targeting the RVFV envelope proteins Gn and Gc.

## 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.