



# 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

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## Anti-Genome polyprotein [E106] Bulk Size Ab04464-1.29-BT

This is a Fab fragment with a his-tag.

**Isotype and Format:** Mouse Fab fragment, His-Tagged, Kappa

**Clone Number:** E106

**Alternative Name(s) of Target:** Envelope protein E; dengue virus type I; dengue virus type 1

**UniProt Accession Number of Target Protein:** Q8BE40

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

**Published Species Reactivity:** Dengue Virus

**Immunogen:** The original antibody was raised by immunizing a BALB/c mouse with DENV-2.

**Specificity:** This antibody is specific for the EDIII domain of envelope protein E from dengue fever type 1.

**Application Notes:** The original antibody was used for flow cytometry on DENV infected Raji-DC-SIGN-R cells. It showed strong binding to DENV-1 and DENV-4, but no binding to DENV-2 and DENV-3 (Shrestha et al., 2010; PMID:20369024). This antibody was used for a plaque reduction assay on BHK21 or Vero cells and DENV-1 (Edeling et al., 2014; PMID:24743696, Shrestha et al., 2010; PMID:20369024, Shrestha et al., 2012; PMID:22406169). The structure of this antibody was determined using x-ray crystallography. An in vivo protection assay was performed on AG129 mice by administering this antibody before infection with DENV-1. It showed a significantly higher rate of survival than control. Further the in vivo study was also performed with administering this antibody after infection. Here it also showed an increase in survival (Shrestha et al., 2010; PMID:20369024). This antibody was used for surface plasmon resonance on DIII. This antibody was used for an ELISA on DENV-1. The antibody was used for a neutralization assay on Raji-DCSIGNR cells infected with DENV-1, the neutralization was tested both before and after infection had taken place (Edeling et al., 2014; PMID:24743696).

**Antibody First Published in:** Shrestha et al. The Development of Therapeutic Antibodies That Neutralize Homologous and Heterologous Genotypes of Dengue Virus Type 1 PLoS Pathog. 2010 Apr; 6(4): e1000823.

[PMID:20369024](#)

**Note on publication:** The original paper identifies an analogous panel of neutralizing antibodies against DENV type-1 (DENV-1), by immunizing mice with a genotype 2 strain of DENV-1 virus and generating 79 new MAbs, 16 of which strongly inhibited infection by the homologous virus and localized to DIII.

### Product Form

**Size:** 500 µg Purified antibody in bulk size.

**Purification:**

Purified by Immobilized Metal Affinity Chromatography

**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.