



# 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-Flavivirus group antigen [2A10G6] Bulk Size Ab03862-10.3-BT

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™, Kappa

**Clone Number:** 2A10G6

**Alternative Name(s) of Target:** Genome polyprotein; Envelope protein E; CGMCC No. 3292

**UniProt Accession Number of Target Protein:** B6DXD2; Q9Q4T1; Q99D35; P03314; Q9E100; Q6RVA2

**Published Application(s):** crystallography, in vitro, in vivo, NTRL, ELISA, IF

**Published Species Reactivity:** Dengue Virus, Flaviviridae, West Nile Virus, Yellow Fever Virus, Zika Virus

**Immunogen:** The original antibody was generated by immunizing BALB/c mice with neonatal rat brain suspension infected with Dengue 2 virus.

**Specificity:** The antibody recognises the E protein of Flavivirus. The antibody reacted with Dengue 1-4 virus. The antibody binds to an epitope within the highly conserved flavivirus fusion loop peptide, the 98DRXW101 motif.

**Application Notes:** The specificity of the antibody for the E protein was confirmed by ELISA analysis. The antibody recognized dengue virus prM-E antigen by indirect immunofluorescence. Hamster kidney cell line BHK-21 was used to verify the inhibitory effect of the antibody on multiple flavivirus infections. The results of cell neutralization experiments showed that antibody can effectively block a variety of flavivirus infections and the binding of BHK21 cells. In vivo protection experiments showed that antibodies against flavivirus envelope E protein can effectively protect suckling mice against dengue virus attack, and the survival rate and survival time are significantly improved (CN101891806B). The crystal structure of the Fab fragment of the antibody in complex with zika virus envelope protein was determined. The antibody bound to the ZIKV-E protein with a high binding affinity ( $K_d = 2.7$  nM) and neutralized the ZIKV infection in vitro. Further, the antibody completely protects mice against the circulating ZIKV strain in vivo (Dai et al., 2016; PMID: 27158114).

**Antibody First Published in:** PMID:

**Note on publication:**

## 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.