



# SZABO SCANDIC

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## Produktinformation



Forschungsprodukte & Biochemikalien



Zellkultur & Verbrauchsmaterial



Diagnostik & molekulare Diagnostik



Laborgeräte & Service

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### Lieferung & Zahlungsart

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### Zuschläge

- Mindermengenzuschlag
- Trockeneiszuschlag
- Gefahrgutzuschlag
- 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](mailto:mail@szabo-scandic.com)

[www.szabo-scandic.com](http://www.szabo-scandic.com)

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

## Anti-Dengue virus envelope protein [C9] Ab03610-23.0-BT

This chimeric rabbit antibody was made using the variable domain sequences of the original Mouse IgG1 format, for improved compatibility with existing reagents, assays and techniques.

**Isotype and Format:** Rabbit IgG, Kappa

**Clone Number:** C9

**Alternative Name(s) of Target:** envelope protein; envelope protein domain 3; EDIII

**UniProt Accession Number of Target Protein:** P17763

**Published Application(s):** neutralization, ELISA, IF

**Published Species Reactivity:** Dengue Virus

**Immunogen:** A chimeric library was created from clones that were able to bind DENV2 EDIII, this library was then panned against DENV2 EDIII to create this antibody.

**Specificity:** This antibody is specific for the EDIII protein of the dengue virus. The dengue virus causes the disease known as dengue fever.

**Application Notes:** To determine the specificity and DENV cross-reactivity of the IgG1 version of this antibody an ELISA was performed on EDIII, this antibody had strong binding for EDIII from DENV2 and to a lesser extent with EDIII from DENV1 and DENV3. Furthermore, immunofluorescence was performed on uninfected BHK-21 cells and cells infected with DENV2 using the IgG1 version of this antibody, it showed clear fluorescence in the cytoplasm of infected cells. Finally, a plaque reduction neutralization test was performed using the IgG1 version of this antibody, this antibody showed a 25% reduction of plaque formation. This antibody is a chimeric antibody with mouse V $\kappa$ /human C $\kappa$  and mouse V $H$ /human C $H$  segments (Moreland et al, 2012; pmid:22489114).

**Antibody First Published in:** Moreland et al. Phage Display Approaches for the Isolation of Monoclonal Antibodies Against Dengue Virus Envelope Domain III from Human and Mouse Derived Libraries. Int J Mol Sci. 2012; 13(3): 2618-2635. [PMID:22489114](#)

**Note on publication:** A chimeric Fab-phage library was constructed from a panel of EDIII specific mouse hybridomas by pooling the V $H$  and V $L$  chain sequences from the hybridomas and cloning these into the pComb3X phagemid vector with human C $H$  and C $L$  encoding sequences. Biopanning against EDIII identified a unique antibody (C9) that cross-reacts with EDIII from DENV1-3 and, in the IgG format, binds and neutralizes DENV2 in cell-based assays.

## 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.