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Zuschläge

- Mindermengenzuschlag
- Trockeneiszuschlag
- Gefahrgutzuschlag
- Expressversand

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Anti-Dengue virus envelope protein [C9] Standard Size Ab03610-21.0

This antibody does not have a J-chain and therefore presents as a hexamer, rather than a pentamer.

This reformatted mouse 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: Mouse IgM, 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_k/human C_k 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: 50 µg Purified antibody.

Purification: Affinity Purified using a recombinant lectin column

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.