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Diagnostik & molekulare Diagnostik



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Lieferung & Zahlungsart

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Zuschläge

- Mindermengenzuschlag
- Trockeneiszuschlag
- Gefahrgutzuschlag
- Expressversand

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Anti-Flavivirus group antigen [2A10G6] Standard Size Ab03862-23.0

Isotype and Format: Rabbit IgG, 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: 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.