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Produktinformation



Forschungsprodukte & Biochemikalien



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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-Genome polyprotein [2H4] Standard Size Ab04492-1.1

Isotype and Format: Mouse IgG1, Kappa

Clone Number: 2H4

Alternative Name(s) of Target: JEV; E protein; Envelope protein E

UniProt Accession Number of Target Protein: P32886

Published Application(s): neutralization, SPR, X-ray crystallography, ELISA

Published Species Reactivity: Japanese Encephalitis Virus

Immunogen: The original antibody was generated by immunizing mice with JEV.

Specificity: The antibody is specific for JEV. It binds a quaternary epitope that span across three adjacent envelope proteins. The antibody does not cross react with E protein from dengue (DENV1 and DENV2), Zika (ZIKV) and yellow fever (YFV) viruses.

Application Notes: The specificity of the original format of the antibody was confirmed by ELISA analysis. The antibody was used in indirect immunofluorescence. The antibody could neutralize the virus in mice (Zhang et al., 1989; PMID: 2557383). Surface plasmon resonance experiments showed that the antibody binds to the JEV rE with a high affinity of 2.9nM. The antibody could block attachment of the virus to its receptor and also prevent fusion of the virus. Cell-based neutralizing assays (in Vero cells) revealed that the antibody has strong neutralizing activities: a 50% neutralizing concentration value of 1.2 ng ml⁻¹ against JEV (P3 strain). The antibody protected 100% of mice from lethal infection of JEV and led to complete clearance of JEV from the brains of mice, indicating its potential as a therapeutic agent. The structure of the Fab fragment of the antibody was determined by X-ray and of the Fab in complex with JEV by Cryo-EM (Qiu et al., 2018; PMID: 29379207).

Antibody First Published in: Zhang et al. Passive protection of mice, goats, and monkeys against Japanese encephalitis with monoclonal antibodies *J Med Virol.* 1989 Oct;29(2):133-8. doi: 10.1002/jmv.1890290211. [PMID:2557383](#)

Note on publication: The original paper describes the generation and characterization of the antibody.

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.