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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-Envelope glycoprotein E2 [F5] Standard Size Ab04440-10.3

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 Fab format, created for improved compatibility with existing reagents, assays and techniques.

Isotype and Format: Human IgG1, Fc Silent™, Lambda

Clone Number: F5

Alternative Name(s) of Target: Structural polyprotein; Envelope glycoprotein E2; Spike glycoprotein E2

UniProt Accession Number of Target Protein: P05674

Published Application(s): in vitro, in vivo, neutralization, ELISA, IHC

Published Species Reactivity: Venezuelan equine encephalitis virus

Immunogen: The original antibody was raised by panning cells from human bone marrow against VEEV TC-83.

Specificity: This antibody is specific for amino acids 115 to 119 in the E2 A domain of VEEV.

Application Notes: The human IgG1 version of this antibody was used for an ELISA on six VEEV subtypes (Hunt et al., 2010; PMID:20644615), and on VEEV TC-83 (Hunt et al., 2011; PMID:21489591). The human IgG1 version of this antibody was used for a competitive binding assay on VEEV TC-83, to show that it can block other known neutralizing antibodies (Hunt et al., 2010; PMID:20644615). The structure of a fab fragment of this antibody was determined using cryo-EM (Porta et al., 2014; PMID:24920796). The prophylactic ability of this antibody was tested on mice, here mice were incubated with this antibody after which an attempt was made to infect them with VEEV. It showed prophylactic ability in this experiment (Hunt et al., 2011; PMID:21489591)(Schwedler et al., 2024; PMID:38170638). Further this antibody was used for immunohistochemistry on brains from treated and untreated mice (Hunt et al., 2011; PMID:21489591).

Antibody First Published in: Hunt et al. The first human epitope map of the alphaviral E1 and E2 proteins reveals a new E2 epitope with significant virus neutralizing activity PLoS Negl Trop Dis. 2010 Jul 13;4(7):e739. PMID:20644615

Note on publication: The original paper constructed the first human epitope map for the alphaviral surface proteins E1 and E2 using 11 VEEV-reactive hFabs.

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.