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Produktinformation



Forschungsprodukte & Biochemikalien



Zellkultur & Verbrauchsmaterial



Diagnostik & molekulare Diagnostik



Laborgeräte & Service

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Lieferung & Zahlungsart

siehe unsere [Liefer- und Versandbedingungen](#)

Zuschläge

- Mindermengenzuschlag
- Trockeneiszuschlag
- Gefahrgutzuschlag
- Expressversand

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Anti-G [HENV-26] Standard Size Ab04491-10.3

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 IgG1 format, created for improved compatibility with existing reagents, assays and techniques.

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

Clone Number: HENV-26

Alternative Name(s) of Target: RBP; Glycoprotein; Glycoprotein G; Attachment glycoprotein; Receptor binding protein;

UniProt Accession Number of Target Protein: Q9IH62; F4YH71; H6V875; O89343

Published Application(s): flow cytometry, in vivo, neutralization, SPR, X-ray crystallography, ELISA

Published Species Reactivity: Hendra henipavirus, Nipah virus

Immunogen: The original antibody was isolated from an immune human individual.

Specificity: The antibody is specific for RBP of HeV and NiV. The antibody epitope overlaps with the receptor binding sites of RBP.

Application Notes: The specificity of the original format of the antibody for recombinant RBP head domain proteins from HeV, NiVM, or NiVB was confirmed by ELISA analysis ($EC_{50} = 0.14, 0.09$ and 0.07 µg/mL respectively). The antibody could neutralize HeV, NiVB and NiVM in In vitro neutralization assays ($IC_{50} = 0.07, 0.03$ and 0.04 µg/mL respectively). The antibody could bind to the full-length RBPs by flow cytometry. The EC_{50} values for binding of the antibody ranged from 325 to 343 ng/mL for binding to HeV, NiVM, or NiVB. The kinetics of binding of the antibody to RBPs was measured on a biosensor to determine affinity ($KD = 2.9, 2.2,$ or 1.0 nM for HeV, NiVM, or NiVB, respectively). The crystal structures of Fab fragment of the antibody in complex with both HeV-RBP and NiV-RBP were determined. The antibody protected ferrets in lethal models of infection with NiV (Dong et al., 2020; PMID: 33306954).

Antibody First Published in: Dong et al. Potent Henipavirus Neutralization by Antibodies Recognizing Diverse Sites on Hendra and Nipah Virus Receptor Binding Protein Cell. 2020 Dec 10;183(6):1536-1550.e17. doi: 10.1016/j.cell.2020.11.023. PMID:33306954

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.