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Produktinformation

- Forschungsprodukte & Biochemikalien
- Zellkultur & Verbrauchsmaterial
- Diagnostik & molekulare Diagnostik
- Laborgeräte & Service

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See the following pages for more information!

Lieferung & Zahlungsart

siehe unsere Liefer- und Versandbedingungen

Zuschläge

- Mindermengenzuschlag
- Trockeneiszuschlag
- Gefahrgutzuschlag
- Expressversand

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Anti-GP38 [CC5-17] Standard Size Ab04108-15.0

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

Isotype and Format: Human IgM, Kappa
Clone Number: CC5-17
Alternative Name(s) of Target: Glycoprotein 38; Crimean-Congo Hemorrhagic Fever Virus glycoprotein 38; CCHFV GP38; CC5_17
UniProt Accession Number of Target Protein:
Published Application(s): BLI, SPR, ELISA
Published Species Reactivity: CCHFV, Crimean-Congo Hemorrhagic Fever Virus
Immunogen: The original antibody was isolated from donor "CC5", a CCHFV survivor; circulating anti-GP38 antibodies were isolated from plasma using affinity chromatography. The paired heavy and light chain sequences were obtained from proteomics and genomics analyses, and the antibody was produced by transfecting Expi293 cells (expiCHO-S cells) with 1:1 ratio of heavy chain plasmid to light chain plasmid.
Specificity: This antibody is specific for site I of CCHFV GP38 with three main determinants conferring binding; the first is LCDR3 which partially interacts with the N-terminus, the second interacts with α-helix 2 of GP38, and the third interaction is the HCDR3 which interacts with a larger hydrophobic pocket on top of GP38 and the large 20 AA flexible loop. This antibody binds to GP38 from CCHFV IbAr10200, Turkey-2004, and Hoti, but it did not engage with Aigai virus GP38. Therefore, for robust binding, the GP38 protein needs to have a glycine amino acid at position 296.
Application Notes: The binding of this antibody's original format (human IgG1) to GP38 was evaluated using ELISA. It had an association constant (K_a) of 3.9×10^5 $M^{-1}s^{-1}$ as measured by surface plasmon resonance (SPR) (Durie et al., 2022; PMID: 36435827).
Antibody First Published in: Durie et al. Structural characterization of protective non-neutralizing antibodies targeting Crimean-Congo hemorrhagic fever virus Nat Commun. 2022 Nov 26;13(1):7298. doi: 10.1038/s41467-022-34923-0 PMID:36435827
Note on publication: The original publication investigates the structural characterization of non-neutralizing antibodies targeting Crimean-Congo hemorrhagic fever virus, highlighting their potential for broad-spectrum therapeutic applications against a range of virus strains.

Product Form

Size: 50 µg Purified antibody.
Purification:

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Affinity Purified using a recombinant lectin column
Supplied In: PBS with 0.02% Proclin 300.
Storage Recommendation: Store at 4ºC for up to 3 months. For longer storage, aliquot and store at -20ºC.
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.

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