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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-S protein (RBD) [1E2] Standard Size Ab03638-23.159

Isotype and Format: Rabbit IgG-Fc fusion

Clone Number: 1E2

Alternative Name(s) of Target: SARS CoV 2 S glycoprotein; COVID-19 Spike protein; RBD; Receptor Binding Domain; E2 glycoprotein; E2; Human coronavirus 2 spike glycoprotein; Peplomer protein; S glycoprotein; SARS coronavirus 2 S protein; SARS coronavirus 2 Spike Protein; SARS CoV 2 Spike protein; SARS CoV 2; SARS-CoV-2 S protein; SARSCoV2; SARS-COV-2 S protein; SARS-COV-2 Spike glycoprotein; SARSCOV2 Spike protein; Severe acute respiratory syndrome 2 spike glycoprotein; Severe acute respiratory syndrome virus 2 spike glycoprotein; Spike glycoprotein; 2019-nCoV; SARS-CoV2

UniProt Accession Number of Target Protein: P0DTC2

Published Application(s): neutralizing, SPR, ELISA

Published Species Reactivity: SARS-CoV-2

Immunogen: The original antibody was generated from a panel of humanized single domain antibodies derived from a synthetic library. The antibody was isolated by panning against SARS-CoV-2 spike receptor-binding domain (RBD).

Specificity: The antibody binds to the RBD of the Spike protein of SARS-CoV.

Application Notes: The specificity of the original format of the antibody was confirmed by ELISA analysis. The binding affinity of the VHH fragment to SARS-CoV-2 RBD was measured by surface plasmon resonance ($K_d = 35.5$ nM). The VHH showed half maximal neutralization concentration (EC_{50}) of 0.069 µg/mL and 0.2401 µg/mL against SARS-CoV-2 pseudotypes, and authentic SARS-CoV-2, respectively. Fusion of the human IgG1 Fc to the VHH improved the neutralizing activity compared to the original format of the antibody. The Fc-fused VHH demonstrated potency with EC_{50} of 0.538 nM. (Chi et al, 2020; pmid: 32913273)

Antibody First Published in: Chi et al. Humanized single domain antibodies neutralize SARS-CoV-2 by targeting the spike receptor binding domain. Nat Commun. 2020 Sep 10;11(1):4528. [PMID:32913273](#)

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

Product Form

Size: 200 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.