SZABO SCANDIC

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Produktinformation

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

Weitere Information auf den folgenden Seiten!
See the following pages for more information!

Lieferung & Zahlungsart

siehe unsere Liefer- und Versandbedingungen

Zuschläge

- Mindermengenzuschlag
- Trockeneiszuschlag
- Gefahrgutzuschlag
- Expressversand

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Anti-S protein (RBD) [5F8] Bulk Size Ab03059-23.159-BT

This chimeric rabbit antibody was made using the variable domain sequences of the original VHH format for improved compatibility with existing reagents assays and techniques.

Isotype and Format: Rabbit IgG-Fc fusion
Clone Number: 5F8
Alternative Name(s) of Target: Spike glycoprotein; Receptor Binding Domain; SARS CoV 2 S glycoprotein; COVID-19 Spike protein; RBD; Receptor Binding Domain; 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; S glycoprotein; E2; Peplomer protein
UniProt Accession Number of Target Protein: P0DTC2
Published Application(s): in vitro neutralization, SPR
Published Species Reactivity: SARS-CoV-2
Immunogen: The original antibody was generated by using phage display technology by biopanning a full synthetic, humanized phage display library with recombinant RBD protein.
Specificity: The antibody binds the receptor binding domain (RBD) of the SARS-CoV-2 Spike protein.
Application Notes: The binding affinity of the VHH fragment towards SARS-CoV-2 or SARC-CoV RBD was measured using surface plasmon resonance (Kd= 0.996 and 239,2 nM respectively). The neutralization activity of the VHH fragment with SARS-CoV-2 pseudotypes or SARS-CoV-2 was tested, the showing half maximal neutralization concentration (EC50) of 0.0009 µg/mL and 0.51 µg/mL respectively. Competition-binding assay showed the clone could just partially prevent binding of SARS-CoV-2 RBD to ACE2. Neutralization assay of the bivalent form of the clone fused with human IgG1 Fc against SARS-CoV-2pp was performed, showing EC50= 0.004 µg/mL (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 paper describes the generation and characterization of the antibody.

Product Form

Size: 1 mg Purified antibody in bulk size.
Purification:

Protein A affinity purified
Supplied In: PBS only.
Storage Recommendation: Store at 4^{o}C for up to 3 months. Note, this antibody is provided without added preservatives, it is therefore recommed this antibody be handled under sterile conditions. For longer storage, aliquot and store at -20^{o}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.