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S
Human Anti-SARS-CoV-2 Spike-RBD (Clone VHH-72-Fc) Neutralizing mAb

Catalog No.	CPC510A CPC510B	**Quantity:**	50 µg 100 µg

Alternate Names: Spike glycoprotein, S glycoprotein receptor binding domain, S-RBD, VHH-72-Fc

Description: VHH-72 is a single-domain, heavy chain-only antibody or nanobody isolated from a llama immunized with spike from SARS-CoV-1, which is cross-reactive against spike from SARS-CoV-2. The Llama VHH was engineered into a bivalent form by fusion to hIgG1 Fc for a humanized SARS-CoV-1– and SARS-CoV-2–neutralizing capacity. VHH-72 binds to an epitope in the receptor binding domain (RBD) of the spike protein that is highly conserved in members of the Sarbecovirus subgenus of the betacoronaviruses, prevents the interaction of the SARS-CoV-1 and SARS-CoV-2 RBD with angiotensin converting enzyme 2 (ACE2), and presumably destabilizes the spike protein.
Recombinant Human anti-SARS-CoV-2 Spike Protein Receptor Binding Domain, Clone VHH-72, is expressed in XtenCHO.antibody therapies and diagnostic antigen-based tests.

UniProt ID: P0DTC2

Immunogen: SARS-CoV Spike was used for phage panning by an immunized llama library

Specificity: Neutralizes SARS-CoV-2 and SARS-CoV-1 by binding respective Spike-RBD proteins

Bioactivity: EC_{50} = 136.4 ng/ml with SARS-CoV-2 Spike-RBD

Source: XtenCHO

Isotype: Human IgG1

Clone: VHH-72-Fc

Concentration: 1.0 mg/ml

Formulation: Sterile-filtered PBS, pH 7.5 preservative free.

Purification: Protein A affinity chromatography

Applications: Neutralizing
ELISA: suggested dilution 1:5,000 - 1:10,000
Western blot: suggested dilution 1:1,000 - 1:2,000

Storage & Stability: Stable at 2-8°C for 1 week or for up to 1 year at -20°C to -80°C. It is recommended to prepare working aliquots of undiluted product and store -20°C to -80°C.

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