S
Human Anti-SARS-CoV-2 Spike S1 (CR3022) Neutralizing mAb

Catalog No.	CPC520A CPC520B	**Quantity:**	50 µg 100 µg

Alternate Names: Spike glycoprotein, Spike S1 subunit, S glycoprotein, CR3022

Description: CR3022, which was previously isolated from a convalescent SARS-CoV–infected patient, is a neutralizing antibody obtained in complex with the receptor-binding domain of the SARS-CoV-2 spike. The antibody binds to an epitope conserved between SARS-CoV-2 and SARS-CoV that is distinct from the receptor-binding site. CR3022 was shown to neutralize SARS-COV in a concerted action with clone CR3014. Presence of both antibodies delivers a blocking action of the SARS-COV RBD-ACE2 interaction, by binding two distinct and functional epitopes.

UniProt ID: P0DTC2

Origin: Isolated from a convalescent SARS-CoV–infected patient

Specificity: Reacts with aa 318-510 in the S1 domain of the SARS-CoV Spike protein as well as SARS-CoV-2 (COVID-19) Spike protein. The antibody also binds to P462L-substituted S318–510 fragments of the SARS spike protein. The binding epitope is only accessible in the "open" conformation of the spike protein.

Bioactivity: EC_{50} = 56.36 ng/ml with SARS-CoV-2 Spike-RBD

Source: XtenCHO

Isotype: Human IgG1

Clone: CR3022

Concentration: 1.0 mg/ml

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

Purification: Protein A affinity chromatography

Applications:
Neutralizing
ELISA: 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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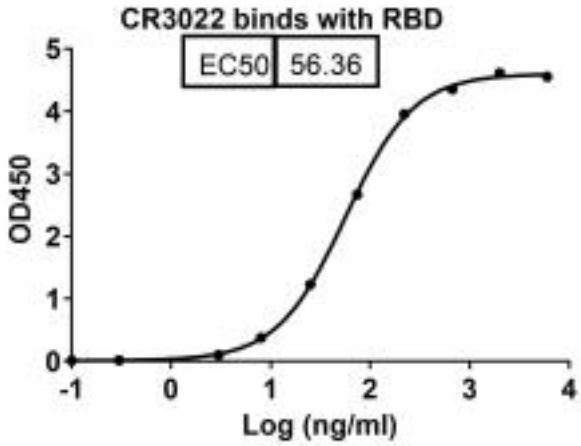

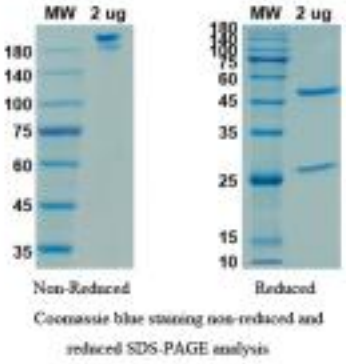

Coomassie blue staining non-reduced and reduced SDS-PAGE analysis

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