S
Human Anti-SARS-CoV-2 Spike-RBD (S309) Neutralizing mAb

Catalog No.	CPC525A CPC525B	**Quantity:**	50 µg 100 µg

Alternate Names: Spike glycoprotein, Spike receptor binding domain, Spike-RB protein, Sotrovimab

Description: S309, which was first isolated from memory B cells from the sera of a recovered SARS-CoV-1 patient. S309, like many other antibodies, targets the Spike protein of the viral genome, which modulates viral entry into host cells and carries several antibody binding sites. S309 targets a specific residue on the Spike protein, N343, which was later determined to be a consistently conserved glycan in the Sarbecovirus subgenus. As SARS-CoV-2 belongs to this subgenus and maintains many similarities to SARS-CoV-1, S309 was a promising neutralizing antibody candidate for inhibition of SARS-CoV-2.

UniProt ID: P0DTC2

Origin: S309, which was first isolated from memory B cells from the sera of a recovered SARS-CoV-1 patient

Specificity: Recognizes an epitope containing a glycan that is conserved within the Sarbecovirus subgenus, without competing with receptor attachment.
Potently neutralizes SARS-CoV-2 and SARS-CoV pseudoviruses as well as authentic SARS-CoV-2, by engaging the receptor-binding domain of the S glycoprotein.

Bioactivity: EC_{50} = 160.6 ng/ml with SARS-CoV-2 Spike-RBD

Source: XtenCHO

Isotype: Human IgG1

Clone: S309

Concentration: 1.0 mg/ml, lot specific

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

Purification: Protein A affinity chromatography

Applications: This antibody may be used as the detecting Ab when paired with CPC527 as the capture antibody in a sandwich ELISA.

Application Notes: 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.
Avoid repeated freeze/thaw cycles.

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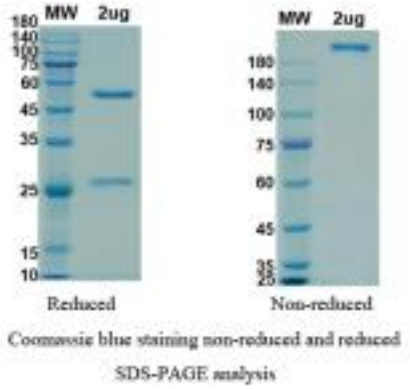
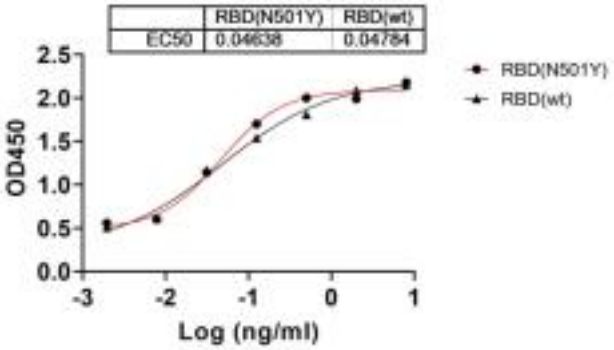


Coomassie blue staining non-reduced and reduced SDS-PAGE analysis

CPC525 binds with RBD variants



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