S
Human Anti-SARS-CoV-2 Spike-RBD Etesevimab (CB6, JS016, LY-CoV016) Neutralizing mAb

Catalog No.	CPC516A CPC516B	**Quantity:**	50 µg 100 µg

Alternate Names: Spike glycoprotein, S glycoprotein receptor binding domain, S-RBD, CB6, JS016, LY3832479, LY-CoV-016, Etesevimab

Description: Recombinant Human anti-SARS-CoV-2 Spike Protein Receptor Binding domain, Etesevimab (Clone CB6, JS016), is expressed in XtenCHO. The monoclonal antibody JS016, was obtained from a B lymphocyte of a COVID-19 survivor, and binds with high-affinity to the receptor-binding domain within the S1 subunit of the SARS-CoV-2 spike protein, thus blocking the binding between the virus and the cell surface receptor angiotensin-converting enzyme 2 (ACE2).
The spike glycoprotein is found on the outside of the virus particle and gives coronavirus viruses their crown-like appearance. Spike glycoprotein is cleaved into the following 3 chains, Spike protein S1, Spike protein S2, Spike protein S2'. Spike protein S1 attaches the virion to the cell membrane by interacting with host receptor, initiating the infection. Binding to human ACE2 receptor and internalization of the virus into the endosomes of the host cell induces conformational changes in the Spike glycoprotein. Surface glycoprotein is an important target for vaccine development, antibody therapies and diagnostic antigen-based tests.

UniProt ID: P0DTC2

Origin: Derived from a B lymphocyte of a convalescing COVID-19 patient
Sequence does not include the LALA mutation to the Fc portion of CB6 antibody.

Specificity: Recognizes SARS-CoV-2 Spike-RBD protein

Bioactivity: EC_{50} = 72.47 ng/ml with SARS-CoV-2 Spike-RBD

Source: XtenCHO

Isotype: Human IgG1 kappa

Clone: CB6, JS016, LY-CoV-016, LY3832479

Concentration: 1.0 mg/ml, lot specific

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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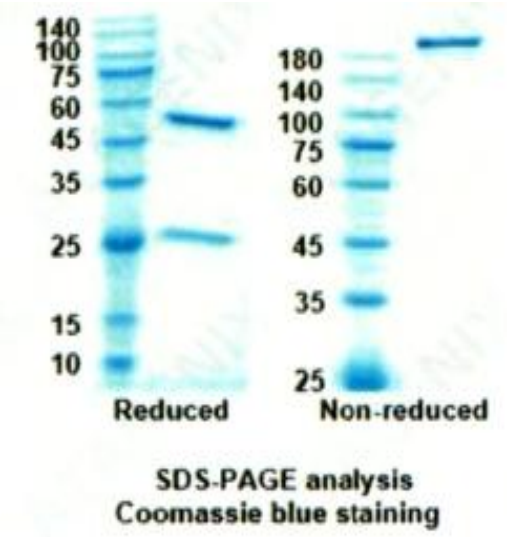

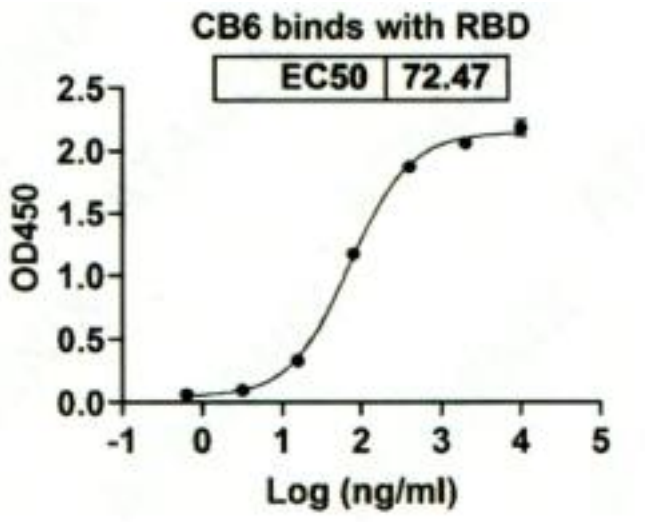

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