cellsciences.com

S
Human Anti-SARS-CoV-2 Spike-RBD (Clone EY6A) Neutralizing mAb

Catalog No.	CPC513A CPC513B	**Quantity:**	50 µg 100 µg

Alternate Names: Spike glycoprotein, S glycoprotein receptor binding domain, S-RBD, EY6A

Description: Recombinant Human anti-SARS-CoV-2 Spike Protein Receptor Binding Domain, Clone EY6A, is expressed in XtenCHO. EY6A was identified from a convalescent patient was found to recognize the RBD and shown to be highly neutralizing.
Severe acute respiratory syndrome coronavirus 2 (SARS-CoV-2) is an enveloped, positive-sense, single-stranded RNA virus that causes coronavirus disease 2019 (COVID -19). The structural proteins of SARS-CoV-2 include the envelope protein (E), spike or surface glycoprotein (S), membrane protein (M) and the nucleocapsid protein (N). 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: Originally isolated from a recovered SARS-CoV-2 patient

Specificity: Recognizes SARS-CoV-2 Spike-RBD protein
Binds full-length spike or purified S1 protein of SARS-CoV-2; cross-reacts with SARS-CoV-1 (although with lower affinity)

Bioactivity: EC_{50} = 86.18 ng/ml with SARS-CoV-2 Spike-RBD

Source: XtenCHO

Isotype: Human IgG

Clone: EY6A

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.

NOT FOR HUMAN USE. FOR RESEARCH ONLY. NOT FOR DIAGNOSTIC OR THERAPEUTIC USE.

Cell Sciences®
65 Parker Street
Unit 11
Newburyport, MA 01950

Toll Free: 888-769-1246
Phone: 978-572-1070
Fax: 978-992-0298

E-mail: info@cellsciences.com
Website: www.cellsciences.com