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32-17074: Recombinant SARS-CoV-2 (2019-nCoV) S protein RBD with C-terminal mouse Fc and 6Ã—His tag

Alternative Name : S protein RBD, Spike glycoprotein Receptor-binding domain, S glycoprotein RBD, Spike protein RBD, COVID-19

Description

Expression Host : HEK293
The protein has a predicted molecular mass of 52.2 kDa after removal of the signal peptide.
SARS-CoV-2 (Severe Acute Respiratory Syndrome Coronavirus 2) also known as Covid19 (2019 Novel Coronavirus) is a virus that causes illnesses ranging from the common cold to severe diseases. The spike protein is a type I transmembrane protein containing two subunits, S1 and S2. S1 mainly contains a receptor binding domain (RBD), which accounts for recognizing the cell surface receptor, ACE2. S2 contains basic elements needed for the membrane fusion. Recent publications indicate that S1-RBD domain can induce virus neutralizing-antibody and T cell response.

Product Info

Amount :	50 µg
Purification :	The purity of the protein is greater than 95% as determined by SDS-PAGE and Coomassie blue staining.
Content :	Lyophilized from sterile PBS, pH 7.4. Normally 5 % - 8 % trehalose is added as protectants before lyophilization.
Storage condition :	Store at -80°C for 12 months (Avoid repeated freezing and thawing)

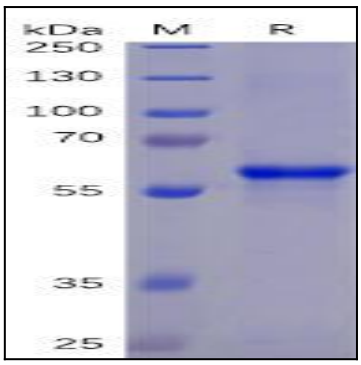

Figure 1. SARS-CoV-2 (2019-nCoV) S protein RBD, mFc-His Tag on SDS-PAGE under reducing condition.

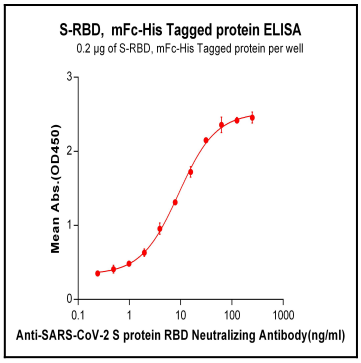

Figure 2. ELISA plate pre-coated by 2 µg/ml (100 µl/well) SARS-CoV-2 (2019-nCoV) S protein RBD, mFc-His tagged protein can bind Anti-SARS-CoV-2 S protein RBD Neutralizing Antibody (A neutralizing monoclonal antibody clone currently under clinical investigation from collaboration company) in a linear range of 0.24-9.141 ng/ml.

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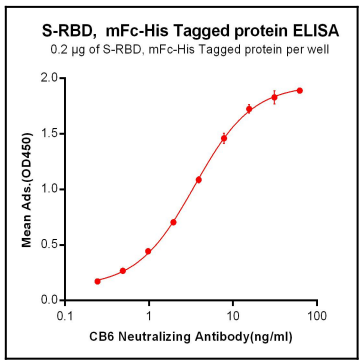

Figure 3. ELISA plate pre-coated by 2 μg/ml (100 μl/well) S-RBD, mFc-His tagged protein can bind Anti-SARS-CoV-2 Neutralizing antibody in a linear range of 0.24-15.62 ng/ml.

Figure 4. ELISA plate pre-coated by 2 μg/ml (100 μl/well) S-RBD, mFc-His tagged protein can bind Human ACE2, hFc Tagged protein in a linear range of 0.488-49.83 ng/ml.

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