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Datasheet for ABIN6961147

SARS-CoV-2 Spike Protein (RBD) (mFc-His Tag)

4 Images

Overview

Quantity:	100 µg
Target:	SARS-CoV-2 Spike
Protein Characteristics:	RBD
Origin:	SARS Coronavirus-2 (SARS-CoV-2)
Source:	HEK-293 Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This SARS-CoV-2 Spike protein is labelled with mFc-His Tag.
Application:	ELISA, Western Blotting (WB)

Product Details

Purpose:	Recombinant SARS-CoV-2 (2019-nCoV) S protein RBD with C-terminal mouse Fc and 6xHis tag
Specificity:	S protein RBD (Arg319-Phe541) mFc (Pro99-Lys330) 6xHis tag
Characteristics:	Extracellular Domain Protein
Purification:	Purified from cell culture supernatant by affinity chromatography
Purity:	The purity of the protein is greater than 90 % as determined by SDS-PAGE and Coomassie blue staining.

Target Details

Target:	SARS-CoV-2 Spike
Abstract:	SARS-CoV-2 Spike Products

Target Details

Target Type:	Viral Protein
Background:	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.
Molecular Weight:	predicted molecular mass of 52.2 kDa after removal of the signal peptide.
Gene ID:	43740568
UniProt:	P0DTC2

Application Details

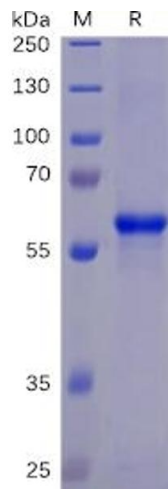
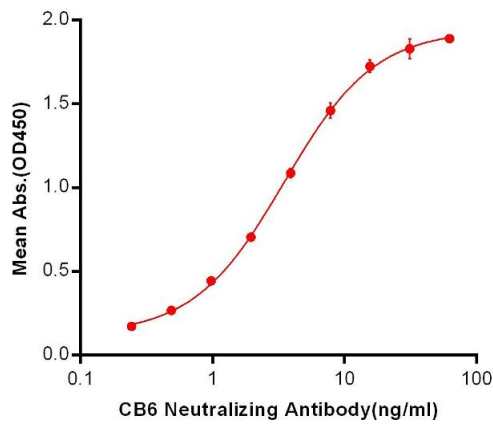
Restrictions:	For Research Use only
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Handling

Format:	Lyophilized
Buffer:	Lyophilized from sterile PBS, pH 7.4. Normally 5 % - 8 % trehalose is added as protectants before lyophilization.
Storage:	-20 °C,-80 °C
Storage Comment:	Store at -20°C to -80°C for 12 months in lyophilized form. After reconstitution, if not intended for use within a month, aliquot and store at -80°C (Avoid repeated freezing and thawing). Lyophilized proteins are shipped at ambient temperature.
Expiry Date:	12 months

S-RBD, mFc-His Tagged protein ELISA

0.2 µg of S-RBD, mFc-His Tagged protein per well



ELISA

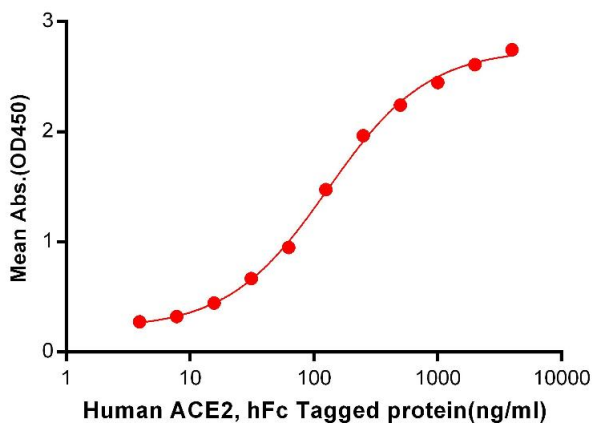
Image 1. ELISA plate pre-coated by 2 µg/mL (100 µL/well) S-RBD, mFc-His tagged protein (ABIN6961147) can bind Anti-SARS-CoV-2 Neutralizing antibody(CB6) in a linear range of 0.24-15.62 ng/mL.

SDS-PAGE

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

S-RBD, mFc-His Tagged protein ELISA

0.2 µg of S-RBD, mFc-His Tagged protein per well



ELISA

Image 3. ELISA plate pre-coated by 2 µg/mL (100 µL/well) S-RBD, mFc-His tagged protein (ABIN6961147) can bind Human ACE2, hFc Tagged protein(ABIN6961131) in a linear range of 0.488-49.83 ng/mL.

Please check the [product details page](#) for more images. Overall 4 images are available for ABIN6961147.