

## Recombinant SARS-CoV-2 (SARS-CoV-2) S protein RBD (C-mFc-6His tag)

Catalog Number: PKSV030276

Note: Centrifuge before opening to ensure complete recovery of vial contents.

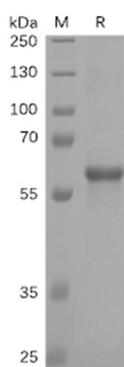
### Description

<b>Species</b>	SARS-CoV-2
<b>Source</b>	HEK293 Cells-derived SARS-CoV-2 Spike protein Arg319-Phe541, with an C-terminal mFc & His
<b>Calculated MW</b>	52.2 kDa
<b>Accession</b>	QHD43416.1
<b>Bio-activity</b>	ELISA plate pre-coated by 2 µg/ml (100 µl/well) Human S-RBD, mFc-His tagged protein (PKSV030276) can bind Anti-SARS-CoV-2 Neutralizing antibody(E-AB-V1028) in a linear range of 0.24-15.62 ng/ml.

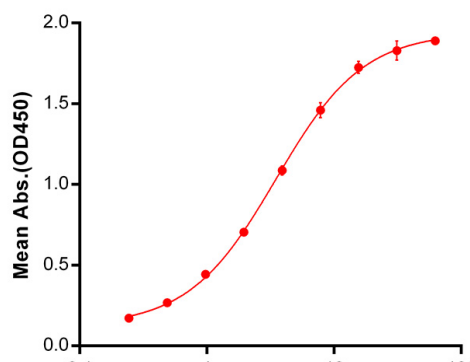
### Properties

<b>Purity</b>	> 95 % as determined by reducing SDS-PAGE.
<b>Endotoxin</b>	Please contact us for more information.
<b>Storage</b>	Generally, lyophilized proteins are stable for up to 12 months when stored at -20 to -80°C. Reconstituted protein solution can be stored at 4-8°C for 2-7 days. Aliquots of reconstituted samples are stable at < -20°C for 3 months.
<b>Shipping</b>	This product is provided as lyophilized powder which is shipped with ice packs.
<b>Formulation</b>	Lyophilized from sterile PBS, pH 7.4. Normally 5% - 8% trehalose, mannitol and 0.01% Tween 80 are added as protectants before lyophilization. Please refer to the specific buffer information in the printed manual.
<b>Reconstitution</b>	Please refer to the printed manual for detailed information.

### Data



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ELISA plate pre-coated by 2 µg/ml (100 µl/well) Human S-RBD, mFc-His tagged protein (PKSV030276) can bind Anti-SARS-CoV-2 Neutralizing antibody(E-AB-V1028) in a linear range of 0.24-15.62 ng/ml.

### For Research Use Only

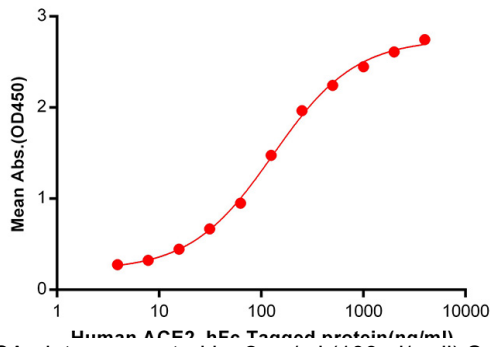
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## S-RBD, mFc-His Tagged protein ELISA

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



Human ACE2 hFc Tagged protein (ng/ml)

ELISA plate pre-coated by 2 µg/ml (100 µl/well) S-RBD, mFc-His tagged protein (PKSV030276) can bind Human ACE2, hFc Tagged protein (PKSR030492) in a linear range of 0.488-49.83 ng/ml.

## 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.

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