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Datasheet for ABIN7197789

## SARS-CoV Spike Protein (RBD) (mFc Tag)

### 2 Images

#### Overview

Quantity:	100 µg
Target:	SARS-CoV Spike (SARS-CoV S)
Protein Characteristics:	RBD
Origin:	SARS Coronavirus (SARS-CoV)
Source:	HEK-293 Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This SARS-CoV Spike protein is labelled with mFc Tag.

#### Product Details

Purpose:	Recombinant SARS-CoV Spike Protein (RBD, mFc Tag)(Active)
Sequence:	Arg306-Phe527
Characteristics:	A DNA sequence encoding the receptor binding domain (RBD) of SARS-CoV (isolate:WH20) spike (AAX16192.1) (Arg306-Phe527) was expressed with the Fc region of mouse IgG1 at the C-terminus.
Purity:	> 90 % as determined by SDS-PAGE.
Endotoxin Level:	< 1.0 EU per µg protein as determined by the LAL method.

#### Target Details

Target:	SARS-CoV Spike (SARS-CoV S)
Alternative Name:	SARS-CoV Spike ( <a href="#">SARS-CoV S Products</a> )

## Target Details

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Target Type: Viral Protein

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Background: The spike (S) glycoprotein of coronaviruses contains protrusions that will only bind to certain receptors on the host cell. Known receptors bind S1 are ACE2, angiotensin-converting enzyme 2, DPP4, dipeptidyl peptidase-4, APN, aminopeptidase N, CEACAM, carcinoembryonic antigen-related cell adhesion molecule 1, Sia, sialic acid, O-ac Sia, O-acetylated sialic acid. The spike is essential for both host specificity and viral infectivity. The term 'peplomer' is typically used to refer to a grouping of heterologous proteins on the virus surface that function together. The spike (S) glycoprotein of coronaviruses is known to be essential in the binding of the virus to the host cell at the advent of the infection process. It's been reported that SARS-CoV-2 (COVID-19 coronavirus, 2019-nCoV) can infect the human respiratory epithelial cells through interaction with the human ACE2 receptor. The spike protein is a large type I transmembrane protein containing two subunits, S1 and S2. S1 mainly contains a receptor binding domain (RBD), which is responsible for recognizing the cell surface receptor. S2 contains basic elements needed for the membrane fusion. The S protein plays key parts in the induction of neutralizing-antibody and T-cell responses, as well as protective immunity. The main functions for the Spike protein are summarized as: Mediate receptor binding and membrane fusion, Defines the range of the hosts and specificity of the virus, Main component to bind with the neutralizing antibody, Key target for vaccine design, Can be transmitted between different hosts through gene recombination or mutation of the receptor binding domain (RBD), leading to a higher mortality rate.

Synonym: coronavirus s1 Protein, SARS, coronavirus s2 Protein, SARS, coronavirus spike Protein, SARS, cov spike Protein, SARS, nCoV RBD Protein, SARS, nCoV s1 Protein, SARS, nCoV s2 Protein, SARS, nCoV spike Protein, SARS, novel coronavirus RBD Protein, SARS, novel coronavirus s1 Protein, SARS, novel coronavirus s2 Protein, SARS, novel coronavirus spike Protein, SARS, RBD Protein, SARS, S1 Protein, SARS, s2 Protein, SARS, Spike RBD Protein, SARS

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Molecular Weight: 51.40kDa.

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## Application Details

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Restrictions: For Research Use only

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## Handling

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Format: Lyophilized

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Reconstitution: Please refer to the printed manual for detailed information.

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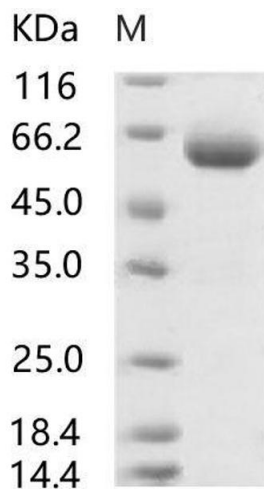
## Handling

**Buffer:** Lyophilized from sterile PBS, pH 7.4. Normally 5 % - 8 % trehalose, mannitol and 0.01 % Tween80 are added as protectants before lyophilization. Please refer to the specific buffer information in the printed manual.

**Storage:** 4 °C,-20 °C,-80 °C

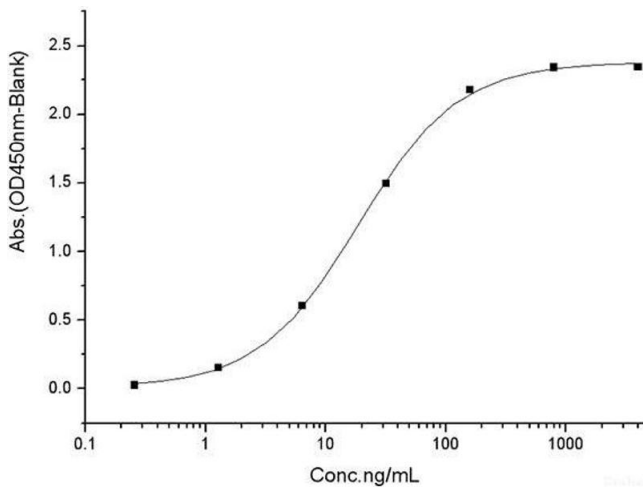
**Storage Comment:** Generally, lyophilized proteins are stable for up to 12 months when stored at -20 to -80°C. Reconstituted protein solution can be stored at 4-8°C for 2-7 days. Aliquots of reconstituted samples are stable at < -20°C for 3 months.

## Images



### Western Blotting

Image 1.



### ELISA

Image 2.