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Datasheet for ABIN7275548

SARS-CoV Spike Protein (RBD) (His-Avi Tag)

4 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 His-Avi Tag.

Product Details

Sequence:	Arg306-Phe527
Purity:	> 95% as determined by Tris-Bis PAGE, > 95% as determined by HPLC
Sterility:	0.22 µm filtered
Endotoxin Level:	Less than 1EU per µg by the LAL method.
Biological Activity Comment:	Immobilized SARS Spike RBD, His Tag at 2µg/ml (100µl/well) on the plate. Dose response curve for Human ACE2, hFc Tag with the EC50 of 39.0ng/ml determined by ELISA. See testing image for detail.

Target Details

Target:	SARS-CoV Spike (SARS-CoV S)
Alternative Name:	SARS-CoV Spike (SARS-CoV S Products)

Target Details

Background:	S protein RBD, S glycoprotein RBD, Spike protein RBD, The spike protein (S) of coronavirus (CoV) attaches the virus to its cellular receptor, angiotensin-converting enzyme 2 (ACE2). A defined receptor-binding domain (RBD) on S mediates this interaction. The S protein plays key parts in the induction of neutralizing-antibody and T-cell responses, as well as protective immunity.
Molecular Weight:	27.9 kDa. Due to glycosylation, the protein migrates to 36-46 kDa based on Tris-Bis PAGE result.
UniProt:	P59594

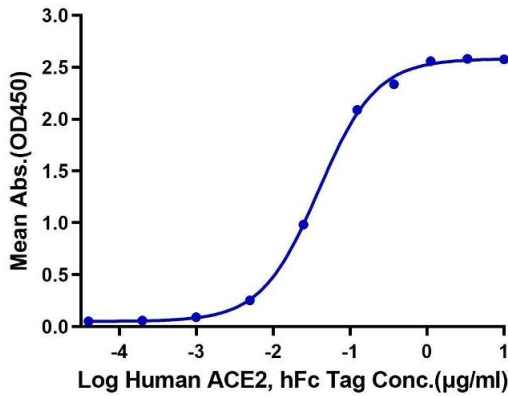
Application Details

Restrictions:	For Research Use only
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Handling

Format:	Lyophilized
Reconstitution:	Centrifuge tubes before opening. Reconstituting to a concentration more than 100 µg/mL is recommended (usually we use 1 mg/mL solution for lyophilization). Dissolve the lyophilized protein in distilled water.
Buffer:	Lyophilized from 0.22µm filtered solution in PBS (pH 7.4). Normally 5 % trehalose is added as protectant before lyophilization.
Storage:	4 °C, -80 °C
Storage Comment:	Reconstituted protein stable at -80°C for 12 months, 4°C for 1 week. Use a manual defrost freezer and avoid repeated freeze-thaw cycles.
Expiry Date:	12 months

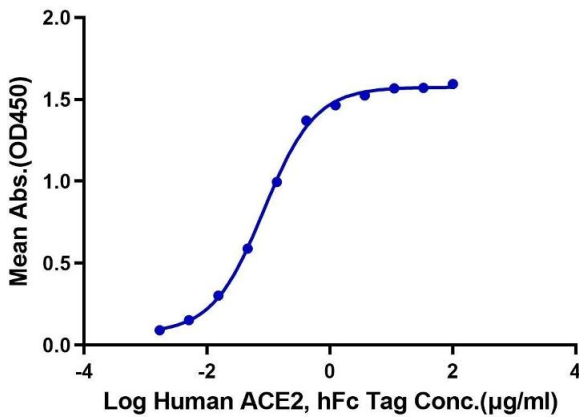
SARS Spike RBD, His Tag ELISA
0.2µg SARS Spike RBD, His Tag Per Well



ELISA

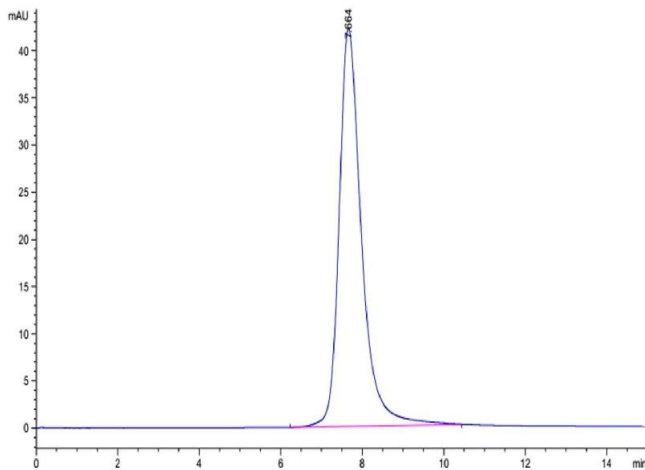
Image 1. Immobilized SARS Spike RBD, His Tag at 2 µg/mL (100 µL/well) on the plate. Dose response curve for Human ACE2, hFc Tag with the EC50 of 39.0 ng/mL determined by ELISA.

SARS Spike RBD, His Tag ELISA
0.05µg SARS Spike RBD, His Tag Per Well



ELISA

Image 2. Immobilized SARS Spike RBD at 0.5 µg/mL (100 µL/Well). Dose response curve for Human ACE2, hFc Tag with the EC50 of 83.8 ng/mL determined by ELISA.



Size-exclusion chromatography-High Pressure Liquid Chromatography

Image 3. The purity of SARS Spike RBD is greater than 95 % as determined by SEC-HPLC.

Please check the [product details page](#) for more images. Overall 4 images are available for ABIN7275548.