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Datasheet for ABIN6952626 SARS-CoV-2 Spike S2 Protein (His tag)

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Overview

Quantity:	100 µg
Target:	SARS-CoV-2 Spike S2
Origin:	SARS Coronavirus-2 (SARS-CoV-2)
Source:	HEK-293 Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This SARS-CoV-2 Spike S2 protein is labelled with His tag.
Application:	SDS-PAGE (SDS)
Product Details	
Purpose:	SARS-CoV-2 (COVID-19) S2 protein, His Tag
Sequence:	AA 686-1213
Characteristics:	SARS-CoV-2 S2 protein, His Tag is expressed from human 293 cells (HEK293). It contains AA Ser 686 - Pro 1213 (Accession # QHD43416.1). Predicted N-terminus: Ser 686 This protein carries a polyhistidine tag at the C-terminus.
Purity:	>95 % as determined by SDS-PAGE.
Sterility:	0.22 µm filtered
Endotoxin Level:	Less than 1.0 EU per µg by the LAL method.
Target Details	
Target:	SARS-CoV-2 Spike S2

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Target Details	
Abstract:	SARS-CoV-2 Spike S2 Products
Target Type:	Viral Protein
Background:	It's been reported that SARS-CoV-2 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.
Molecular Weight:	60.0 kDa
Gene ID:	43740568
UniProt:	P0DTC2
Application Details	
Application Notes:	Optimal working dilution should be determined by the investigator.
Restrictions:	For Research Use only
Handling	
Format:	Lyophilized
Buffer:	PBS, pH 7.4
Handling Advice:	Please avoid repeated freeze-thaw cycles.
Storage:	4 °C,-20 °C,-80 °C
Storage Comment:	For long term storage, the product should be stored at lyophilized state at -20°C or lower. This product is stable after storage at: 4-8°C for 12 months in lyophilized state, -70°C for 3 years under sterile conditions after reconstitution.
Publications	
Product cited in:	Ao, Chan, Ouyang, Olukitibi, Mahmoudi, Kobasa, Yao: "Identification and evaluation of the inhibitory effect of Prunella vulgaris extract on SARS-coronavirus 2 virus entry." in: PLoS ONE , Vol. 16, Issue 6, pp. e0251649, (2021) (PubMed).

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Olaleye, Kaur, Onyenaka, Adebusuyi: "Discovery of Clioquinol and Analogues as Novel Inhibitors of Severe Acute Respiratory Syndrome Coronavirus 2 Infection, ACE2 and ACE2 - Spike Protein Interaction In Vitro." in: **bioRxiv : the preprint server for biology**, (2020) (PubMed).

Aguilar-Pineda, Albaghdadi, Jiang, Lopez, Del-Carpio, Valdez, Lindsay, Malhotra, Lino Cardenas: " Structural and functional analysis of female sex hormones against SARS-Cov2 cell entry." in: **bioRxiv : the preprint server for biology**, (2020) (PubMed).

Images



ELISA

Image 1. Immobilized SARS-CoV-2 S2 protein, His Tag (ABIN6952626,ABIN6952649) at 1 μ g/mL (100 μ L/well) can bind SARS-CoV-2 Spike S2 Antibody, Human IgG1 with a linear range of 0.1-3 ng/mL (QC tested).





SDS-PAGE

Image 2. SARS-CoV-2 S2 protein, His Tag on SDS-PAGE under reducing (R) condition. The gel was stained overnight with Coomassie Blue. The purity of the protein is greater than 95%.

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