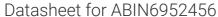
antibodies .- online.com





SARS-CoV-2 Spike S1 Protein (RBD) (His tag, AVI tag, Biotin)





Publications



Go to Product page

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Quantity:	200 μg	
Target:	SARS-CoV-2 Spike S1	
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 S1 protein is labelled with His tag,AVI tag,Biotin.	
Product Details		
Sequence:	AA 319-541	
Specificity:	Biotinylation of this product is performed using Avitag™ technology. Briefly, the single lysine residue in the Avitag is enzymatically labeled with biotin.	
Characteristics:	Biotinylated 2019-nCoV (COVID-19) S protein RBD, His, Avitag (MALS verified) is expressed from human 293 cells (HEK293). It contains AA Arg 319 - Phe 541 (Accession # QHD43416.1). Predicted N-terminus: Arg 319 This protein carries a polyhistidine tag at the C-terminus, followed by an Avi tag.	
Purity:	> 90 % as determined by SDS-PAGE. > 90 % as determined by SEC-MALS.	

Target Details

Endotoxin Level:

Target: SARS-CoV-2 Spike S1

Less than 1.0 EU per μg by the LAL method.

Target Details

rarget Details		
Abstract:	SARS-CoV-2 Spike S1 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:	28.2 kDa	
Gene ID:	43740568	
UniProt:	P0DTC2	
Application Details		
Application Notes:	The protein has a calculated MW of 28.7 kDa. The protein migrates as 34-37 kDa under reducing (R) condition due to glycosylation.	
Comment:	Ready-to-use AvitagTM biotinylated protein: The product is exclusively produced using the AvitagTM technology. Briefly, a unique 15 amino acid peptide, the Avi tag, is introduced into the recombinant protein during expression vector construction. The single lysine residue in the Avi tag is enzymatically biotinylated by the E. Col biotin ligase BirA.	
	This single-point enzymatic labeling technique brings many advantages for commonly used binding assays. The biotinylation happens on the lysine residue of Avi tag, and therefore does NOT interfere with the target protein's natural binding activities. In addition, when immobilized on an avidin-coated surface, the protein orientation is uniform because the position of the Avitag in the protein is precisely controlled.	
Restrictions:	For Research Use only	
Handling		
Format:	Lyophilized	
Buffer:	PBS, pH 7.4	
Handling Advice:	Please avoid repeated freeze-thaw cycles.	

Handling

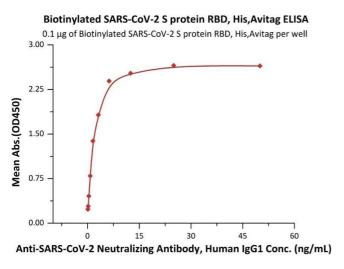
Storage:	-20 °C,-80 °C
Storage Comment:	For long term storage, the product should be stored at lyophilized state at -20°C or lower. This product is stable aftr storage at: -20°C to -70°C for 12 months in lyophilized state, -70°C for 3 months under sterile conditions after reconstitution.

Publications

Product cited in:

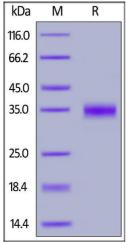
Johnson, Drugan, Miller, Evans: "38" in: , Vol. 1363, Issue Nucleic acids research, pp. 28-39, (1991)

Images



ELISA

Image 1. Immobilized Biotinylated SARS-CoV-2 S protein RBD, His,Avitag (ABIN6952456,ABIN6952463) at $1 \mu g/mL$ (100 $\mu L/well$) on streptavidin precoated (0.5 $\mu g/well$) plate, can bind A-CoV-2 Neutralizing Antibody, Human IgG1 (SAD-S35) with a linear range of 0.1-3 ng/mL (Routinely tested).



SDS-PAGE

Image 2. Biotinylated 2019-nCoV (COVID-19) S protein RBD, His, Avitag (MALS verified) on SDS-PAGE under reducing (R) condition. The gel was stained overnight with Coomassie Blue. The purity of the protein is greater than 90%.

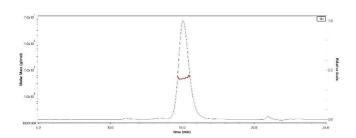


Image 3. The purity of Biotinylated 2019-nCoV (COVID-19) S protein RBD, His,Avitag (MALS verified) (ABIN6952456) was more than 90% in HP-SEC, and around 45-55 kDa verified by SEC-MALS.

Please check the product details page for more images. Overall 4 images are available for ABIN6952456.