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SARS-CoV-2 Spike Protein (B.1.429 - epsilon, RBD) (His tag, AVI tag, Biotin)



Go to Product page

3 Images

Overview

Quantity:	200 μg
Target:	SARS-CoV-2 Spike
Protein Characteristics:	B.1.429 - epsilon, RBD
Origin:	SARS Coronavirus-2 (SARS-CoV-2), SARS CoV-2 Epsilon
Source:	HEK-293 Cells
Protein Type:	Recombinant
Biological Activity:	Active

This SARS-CoV-2 Spike protein is labelled with His tag, AVI tag, Biotin.

Product Details

Purification tag / Conjugate:

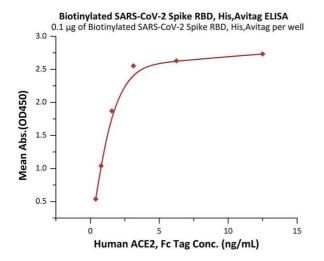
Purpose:	Biotinylated SARS-CoV-2 Spike RBD (L452R), His,Avitag™ (MALS verified)
Sequence:	AA 319-537
Specificity:	Biotinylation of this product is performed using Avitag™ technology. Briefly, the single lysine residue in the Avitag is enzymatically labeled with biotin.
Characteristics:	Biotinylated SARS-CoV-2 Spike RBD (L452R), His, Avitag is expressed from human 293 cells (HEK293). It contains AA Arg 319 - Lys 537 (Accession # QHD43416.1 (L452R). The L452R mutation was identified in the SARS-CoV-2 variant (known as B.1.427/B.1.429) which emerged in California, the U.S.
Purity:	>90 % as determined by SDS-PAGE.
Endotoxin Level:	Less than 1.0 EU per μg by the LAL method.

Target Details

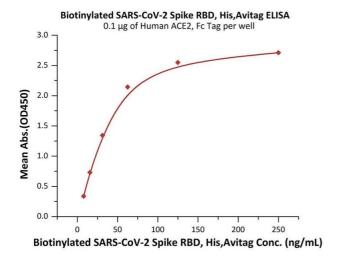
Target:	SARS-CoV-2 Spike
Alternative Name:	SARS-CoV-2 S protein (SARS-CoV-2 Spike Products)
Target Type:	Viral Protein
Background:	It's been reported that Coronavirus can infect the human respiratory epithelial cells through interaction with the human ACE2 receptor. The spike protein is a large type 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:	28.3 kDa
Application Details	
Comment:	Ready-to-use Avitag™ biotinylated protein:
	The product is exclusively produced using the Avitag™ 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 Avi tag in the protein is precisely controlled.
Restrictions:	For Research Use only

Handling

Format:	Lyophilized	
Buffer:	PBS, pH 7.4	
Storage:	-20 °C	



kDa M R 116.0 66.2 45.0 35.0 25.0 18.4 14.4



ELISA

Image 1. Immobilized Biotinylated SARS-CoV-2 Spike RBD, His,Avitag (ABIN6992408) at $1 \mu g/mL$ (100 $\mu L/well$) on streptavidin precoated (0.5 $\mu g/well$) plate can bind Human ACE2, Fc Tag (ABIN6952459,ABIN6952465) with a linear range of 0.2-2 ng/mL (Routinely tested).

SDS-PAGE

Image 2. Biotinylated SARS-CoV-2 Spike RBD (L452R), His,Avitag on under reducing (R) condition. The gel was stained overnight with Coomassie Blue. The purity of the protein is greater than 90 %.

ELISA

Image 3. Immobilized Human ACE2, Fc Tag (ABIN6952459,ABIN6952465) at 1 μ g/mL (100 μ L/well) can bind Biotinylated SARS-CoV-2 Spike RBD, His,Avitag (ABIN6992408) with a linear range of 2-63 ng/mL (QC tested).