antibodies .- online.com

50 μg





SARS-CoV-2 Spike Protein (B.1.351 - beta, Trimer) (His tag)



Images



Go to Product page

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Quantity:

Target:	SARS-CoV-2 Spike
Protein Characteristics:	B.1.351 - beta, Trimer
Origin:	SARS Coronavirus-2 (SARS-CoV-2), SARS CoV-2 Beta
Source:	HEK-293 Cells
Protein Type:	Recombinant
Biological Activity:	Active
Purification tag / Conjugate:	This SARS-CoV-2 Spike protein is labelled with His tag.
Product Details	
Purpose:	SARS-CoV-2 S protein (L18F, D80A, D215G, 242-244del, R246l, K417N, E484K, N501Y, D614G,
	A701V) trimer, His Tag (MALS verified)
Sequence:	AA 16-1213
Characteristics:	SARS-CoV-2 S protein trimer, His Tag is expressed from human 293 cells (HEK293). It contains
	AA Val 16 - Pro 1213 (Accession # QHD43416.1). The recombinant protein is expressed from
	human 293 cells (HEK293) with T4 fibritin trimerization motif and a polyhistidine tag at the C-
	terminus. Proline substitutions (F817P/ A892P/ A899P/ A942P/ K986P/ V987P) and alanine
	substitutions (R683A and R685A) are introduced to stabilize the trimeric prefusion state of
	SARS-CoV-2 S protein and abolish the furin cleavage site, respectively. L18F/ D80A/ D215G/
	LAL242-244del/ R246l/ K417N/ E484K/ N501Y/ D614G/ A701Vmutations were identified on
	the spike protein in the SARS-CoV-2 variant (known as B.1.351 or 20C/501Y.V2) which emerged
	in South Africa.

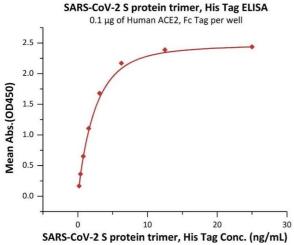
Product Details Purity: >90 % as determined by SDS-PAGE. Endotoxin Level: Less than 1.0 EU per µg by the LAL method. **Target Details** SARS-CoV-2 Spike Target: Alternative Name: SARS-CoV-2 Sprotein (SARS-CoV-2 Spike Products) Target Type: Viral Protein Background: It's been reported that Coronavirus 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: 137.6 kDa **Application Details** Restrictions: For Research Use only Handling Format: Lyophilized

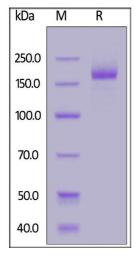
Buffer:

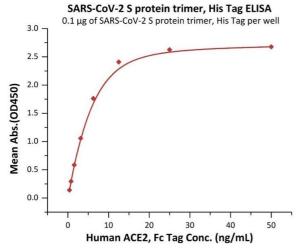
Storage:

PBS

-20 °C







ELISA

Image 1. Immobilized Human ACE2, Fc Tag (ABIN6952459,ABIN6952465) at 1 μ g/mL (100 μ L/well) can bind SARS-CoV-2 S protein trimer, His Tag (ABIN6992378) with a linear range of 0.2-3 ng/mL (Routinely tested).

SDS-PAGE

Image 2. SARS-CoV-2 S protein trimer, His Tag 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 SARS-CoV-2 S protein trimer, His Tag (ABIN6992378) at 1 μ g/mL (100 μ L/well) can bind Human ACE2, Fc Tag (ABIN6952459,ABIN6952465) with a linear range of 0.4-6 ng/mL (QC tested).