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Datasheet for ABIN7013325

SARS-CoV-2 Spike Protein (B.1.617.1 - kappa, RBD) (His tag,AVI tag,Biotin)

Overview

Quantity:	200 µg
Target:	SARS-CoV-2 Spike
Protein Characteristics:	B.1.617.1 - kappa, RBD
Origin:	SARS Coronavirus-2 (SARS-CoV-2), SARS CoV-2 Kappa
Source:	HEK-293 Cells
Protein Type:	Recombinant
Biological Activity:	Active
Purification tag / Conjugate:	This SARS-CoV-2 Spike protein is labelled with His tag,AVI tag,Biotin.

Product Details

Purpose:	Biotinylated SARS-CoV-2 Spike RBD (L452R, E484Q), His,Avitag™ (MALS verified)
Specificity:	Biotinylation of this product is performed using Avitag™ technology. Briefly, the single lysine residue in the Avitag is enzymatically labeled with biotin. SARS-CoV-2 Spike RBD (L452R, E484Q)
Characteristics:	Biotinylated SARS-CoV-2 Spike RBD (L452R, E484Q), His,Avitag is expressed from human 293 cells (HEK293). It contains AA Arg 319 - Lys 537 (Accession # QHD43416.1(L452R, E484Q). The L452R, E484Q mutations were identified in the SARS-CoV-2 variants which emerged in India (known as B.1.617).
Purity:	>95 % 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

Abstract: [SARS-CoV-2 Spike 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: 28.3 kDa

NCBI Accession: [QHD43416](#)

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. Coli 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