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Datasheet for ABIN7013118

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

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Overview

Quantity:	100 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.

Product Details

Purpose:	SARS-CoV-2 Spike RBD (L452R, E484Q), His Tag (MALS verified)
Specificity:	SARS-CoV-2 Spike RBD (L452R, E484Q)
Characteristics:	SARS-CoV-2 Spike RBD (L452R, E484Q), His Tag 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

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Target Details

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:	26.6 kDa
NCBI Accession:	QHD43416

Application Details

Restrictions:	For Research Use only

Handling

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

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