Datasheet for ABIN7013132

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

Go to Product page

Overview

Quantity:	50 µg
Target:	SARS-CoV-2 Spike
Protein Characteristics:	B.1.617.1 - kappa, Trimer
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 Trimer (T95I, G142D, E154K, L452R, E484Q, D614G, P681R, Q1071H), His Tag (MALS verified)
Specificity:	SARS-CoV-2 Spike Trimer (T95I, G142D, E154K, L452R, E484Q, D614G, P681R, Q1071H)
Characteristics:	SARS-CoV-2 Spike Trimer, His Tag is expressed from human 293 cells (HEK293). It contains AA Val 16 - Pro 1213 (Accession # QHD43416.1). The mutations (T95I, G142D, E154K, L452R, E484Q, D614G, P681R) were identified in the SARS-CoV-2 variants which emerged in India (known as B.1.617). 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.
Purity:	>95 % as determined by SDS-PAGE.
Endotoxin Level:	Less than 1.0 EU per µg by the LAL method.

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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:	138.2 kDa
NCBI Accession:	QHD43416

Application Details

Restrictions:	For Research Use only

Handling

Format:	Lyophilized
Buffer:	PBS
Storage:	-20 °C

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