Datasheet for ABIN7316955

SARS-CoV-2 Spike S1 Protein (BA.4 - Omicron, BA.5 - Omicron) (His tag)

Go to Product page

Overview

Quantity:	100 µg
Target:	SARS-CoV-2 Spike S1
Protein Characteristics:	BA.4 - Omicron, BA.5 - Omicron
Origin:	SARS Coronavirus-2 (SARS-CoV-2), SARS CoV-2 Omicron
Source:	HEK-293 Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This SARS-CoV-2 Spike S1 protein is labelled with His tag.

Product Details

Purpose:	SARS-CoV-2 Spike S1 Protein, His Tag (BA.4 & BA.5/Omicron)
Sequence:	Val 16 - Arg 685
Characteristics:	SARS-CoV-2 Spike S1, His Tag (BA.4 & BA.5/Omicron) is expressed from human 293 cells (HEK293). It contains AA Val 16 - Arg 685 (Accession # QHD43416.1 (T19I, LPP24-26del, A27S, HV69-70del, G142D, V213G, G339D, S371F, S373P, S375F, T376A, D405N, R408S, K417N, N440K, L452R, S477N, T478K, E484A, F486V, Q498R, N501Y, Y505H, D614G, H655Y, N679K, P681H). The spike mutations are identified on the SARS-CoV-2 Omicron variant (Pango lineage: BA.4 and BA.5).
Purity:	95,00 %
Endotoxin Level:	1.0 EU per µg

Target Details

Target:	SARS-CoV-2 Spike S1
Abstract:	SARS-CoV-2 Spike S1 Products
Target Type:	Viral Protein
Background:	Synonyms:Spike,S1 protein,Spike glycoprotein Subunit1,S glycoprotein Subunit1,Spike protein S1,Description: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:	76.5 kDa

Application Details

Comment:	This protein carries a polyhistidine tag at the C-terminus. The protein has a calculated MW of 76.5 kDa. The protein migrates as 100-110 kDa under reducing (R) condition (SDS-PAGE) due to glycosylation.
Restrictions:	For Research Use only

Handling

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