Datasheet for ABIN7121375

SARS-CoV-2 Spike Protein (BA.1 - Omicron, RBD) (His tag)

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Overview

Quantity:	100 µg
Target:	SARS-CoV-2 Spike
Protein Characteristics:	BA.1 - Omicron, RBD
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 protein is labelled with His tag.

Product Details

Purpose:	SARS-CoV-2 Spike RBD, His Tag (BA.1+L452R/Omicron) (MALS verified)
Sequence:	Arg 319 - Lys 537
Specificity:	SARS-CoV-2 Spike RBD (BA.1+L452R/Omicron)
Characteristics:	SARS-CoV-2 Spike RBD, His Tag (BA.1+L452R/Omicron) (SPD-C522k) is expressed from human 293 cells (HEK293). It contains AA Arg 319 - Lys 537 (Accession # QHD43416.1 (G339D, S371L, S373P, S375F, K417N, N440K, G446S, L452R, S477N, T478K, E484A, Q493R, G496S, Q498R, N501Y, Y505H). The spike mutations are identified on the SARS-CoV-2 Omicron variant (Pango lineage: BA.1, GISAID clade: GRA, Nextstrain clade: 21K).
Purity:	>95 % as determined by SDS-PAGE.
Endotoxin Level:	Less than 1.0 EU per µg by the LAL method.
Grade:	MALS verified

Target Details

Target:	SARS-CoV-2 Spike
Abstract:	SARS-CoV-2 Spike Products
Background:	Synonyms: Spike,S protein RBD,Spike glycoprotein Receptor-binding domain,S glycoprotein RBD,Spike protein RBD, 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:	26.9 kDa

Application Details

Application Notes:	This protein carries a polyhistidine tag at the C-terminus. The protein has a calculated MW of 26.9 kDa. The protein migrates as 34-37 kDa under reducing (R) condition due to glycosylation.
Restrictions:	For Research Use only

Handling

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

