antibodies -online.com



Datasheet for ABIN7041440

SARS-CoV-2 Spike Protein (B.1.1.529 - Omicron, NTD) (His tag)



Go to Product page

3 Images

Overview

Quantity:	100 μg
Target:	SARS-CoV-2 Spike
Protein Characteristics:	B.1.1.529 - Omicron, NTD
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.
Application:	ELISA, SDS-PAGE (SDS)

Product Details

Purpose:	SARS-CoV-2 Spike NTD, His Tag (B.1.1.529/Omicron) (MALS verified)		
Characteristics:	SARS-CoV-2 Spike NTD, His Tag (B.1.1.529/Omicron) is expressed from human 293 cells		
	(HEK293). It contains AA Ser 13 - Leu 303 (Accession # QHD43416.1(A67V, HV69-70del, T95I,		
	G142D, VYY143-145del, N211del, L212I, ins214EPE). The spike mutations are identified on the		
	SARS-CoV-2 Omicron variant (Pango lineage: B.1.1.529; GISAID clade: GR/484A; Nextstrain		
	clade: 21K). Predicted N-terminus: Ser 13		
Purity:	> 95% as determined by SDS-PAGE. > 95% as determined by SEC-MALS.		
Sterility:	0.22 μm filtered		
Endotoxin Level:	Less than 1.0 EU per μg by the LAL method.		

ot Dotoil

Storage:

Expiry Date:

Storage Comment:

Target Details				
Target:	SARS-CoV-2 Spike SARS-CoV-2 Spike Products Viral Protein			
Abstract:				
Target Type:				
Background:	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 transmembrar 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:	34.6 kDa			
Application Details				
Restrictions:	For Research Use only			
Handling				
Format:	Lyophilized			
Buffer:	Lyophilized from 0.22 µm filtered solution in PBS, pH7.4. Normally trehalose is added as protectant before lyophilization.			
Handling Advice:	Please avoid repeated freeze-thaw cycles.			

-20 °C/-80 °C

12 monts

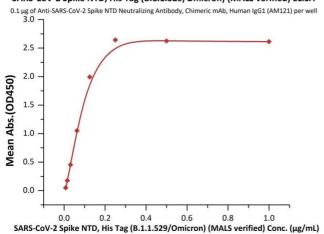
product is stable after storage at:

4-8°C for 12 months in lyophilized state,

-70°C for 3 months under sterile conditions after reconstitution.

For long term storage, the product should be stored at lyophilized state at -20°C or lower. This

SARS-CoV-2 Spike NTD, His Tag (B.1.1.529/Omicron) (MALS verified) ELISA



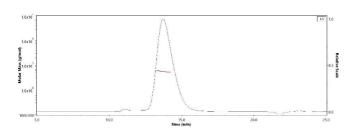
	м
	Δ

Image 1. Immobilized Anti-SARS-CoV-2 Spike NTD Antibody, Chimeric mAb at 1 μ g/mL (100 μ L/well) can bind SARS-CoV-2 Spike NTD, His Tag (B.1.1.529/Omicron) (MALS verified) with a linear range of 0.02-0.1 μ g/mL.

kDa M R 116.0 66.2 45.0 35.0 25.0 18.4

SDS-PAGE

Image 2. SARS-CoV-2 Spike NTD, His Tag (B.1.1.529/Omicron) on SDS-PAGE under reducing (R) condition. The gel was stained overnight with Coomassie Blue. The purity of the protein is greater than 95%.



Size-exclusion chromatography-High Pressure Liquid Chromatography

Image 3. The purity of SARS-CoV-2 Spike NTD, His Tag (B.1.1.529/Omicron) is more than 95% verified by SEC-MALS.