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





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Overview

Quantity:	100 μg	
Target:	SARS-CoV-2 Spike	
Protein Characteristics:	BA.2 - 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 protein is labelled with His tag.	
Application:	ELISA, SDS-PAGE (SDS)	

Product Details

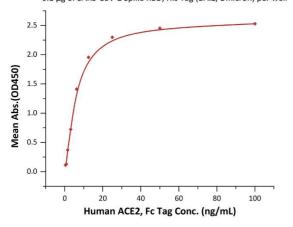
Purpose:	SARS-CoV-2 Spike RBD, His Tag (BA.2/Omicron) (MALS verified)	
Characteristics:	SARS-CoV-2 Spike RBD, His Tag (BA.2/Omicron) is expressed from human 293 cells (HEK293).	
	It contains AA Arg 319 - Lys 537 (Accession # QHD43416.1 (G339D, S371F, S373P, S375F,	
	T376A, D405N, R408S, K417N, N440K, S477N, T478K, E484A, Q493R, Q498R, N501Y, Y505H).	
	The spike mutations are identified on the SARS-CoV-2 Omicron variant (Pango lineage: BA.2;	
	GISAID clade: GRA; Nextstrain clade: 21L). This protein carries a polyhistidine tag at the C-	
	terminus.	
Purity:	> 95% as determined by SDS-PAGE. > 90% as determined by SEC-MALS.	
Sterility:	0.22 µm filtered	
Endotoxin Level:	Less than 1.0 EU per μg by the LAL method.	

Target Details

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Target:	SARS-CoV-2 Spike		
Abstract:	SARS-CoV-2 Spike Products		
Target Type:	Viral Protein		
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 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:	26.7 kDa		
Application Details			
Comment:	The protein has a calculated MW of 26.7 kDa. The protein migrates as 33-40 kDa under reducing (R) condition (SDS-PAGE) due to glycosylation.		
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.		
Storage:	-20 °C/-80 °C		
Storage Comment:	For long term storage, the product should be stored at lyophilized state at -20°C or lower. This 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.		
Expiry Date:	12 monts		

SARS-CoV-2 Spike RBD, His Tag (BA.2/Omicron) ELISA

0.1 µg of SARS-CoV-2 Spike RBD, His Tag (BA.2/Omicron) per well



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ELISA

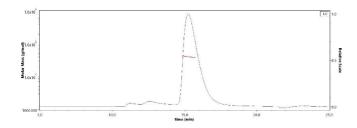
Image 1. Immobilized SARS-CoV-2 Spike RBD, His Tag (BA.2/Omicron) at 1 μ g/mL (100 μ L/well) can bind Human ACE2, Fc Tag (ABIN6952459) with a linear range of 0.4-13 ng/mL (Routinely tested).

SDS-PAGE

Image 2. SARS-CoV-2 Spike RBD, His Tag (BA.2/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%.



Image 3. The purity of SARS-CoV-2 Spike RBD, His Tag (BA.2/Omicron) is more than 90% and the molecular weight of this protein is around 32-48 kDa verified by SEC-MALS.



Please check the product details page for more images. Overall 4 images are available for ABIN7072153.