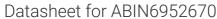
antibodies -online.com





SARS-CoV-2 Spike Protein (Trimer) (rho-1D4 tag)

100 μg



Images



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Quantity:

quartity.	100 pg	
Target:	SARS-CoV-2 Spike	
Protein Characteristics:	Trimer	
Origin:	SARS Coronavirus-2 (SARS-CoV-2)	
Source:	HEK-293 Cells	
Protein Type:	Recombinant	
Purification tag / Conjugate:	This SARS-CoV-2 Spike protein is labelled with rho-1D4 tag.	
Application:	ELISA, SDS-PAGE (SDS), Western Blotting (WB), Crystallization (Crys)	
Product Details		
Purpose:	Trimeric, full length Cov-2 spike protein for assay development (""Antibody tests"")	
Specificity:	single span transmembrane membrane protein (aa 1-1273)	
	Furin cleavage site ""RRAR"" mutated to ""GSAS""	
	 trimerization (3 x 142 kDa) shown on native PAGE 	
	 expressed in Expi293™ cells 	
	C-terminal Rho1D4 tag for affinity purification	
	>Solubilization and stabilization in LMNG detergent	
	2-step purification via Rho1D4 tag and size exclusion chromatography in LMNG detergent	
Characteristics:	Made in Germany - from design to production - by highly experienced protein experts.	
	 Full length SARS Cov-2 spike protein expressed in Expi293™ cells to assure native state glycosylation. 	
	 Purification by a multi-step, protein-specific protocol to ensure crystallization grade. 	

Product Details

Application Notes:	In addition to the applications listed above we expect the protein to work for functional studies as well. As the protein has not been tested for functional studies yet we cannot offer a gurantee
Application Details	
UniProt:	PODTC2
Gene ID:	43740568
Molecular Weight:	3 x 142 kDa
Target: Abstract: Target Type: Background:	SARS-CoV-2 Spike Products Viral Protein The spike glycoprotein exists as a homotrimeric fusion protein. Each of the trimers contains 66 glycosylation sites for host-derived N-linked glycans. Accordingly, expression of this primary target for SARS-CoV-2 vaccine development in an appropriate, human expression system is of utmost importance. Prior to ACE2 binding, each monomer in the prefusion complex contains at S1 ectodomain including the receptor binding domain (RBD) and an S2 endodomain harboring a transmembrane domain. In the predominant state of the trimer, one of the RBDs is in an "up" position whereas the other two are in a "down" position. Interaction of S-protein and ACE2 only takes place with the RBD in the "up" position. Receptor binding triggers a structural change that leads to separation of the S1 and S2 subunits.
Target Details	
Endotoxin Level:	Protein is endotoxin-free.
Purity:	>95 % as determined by SDS PAGE, Size Exclusion Chromatography and Western Blot.
r armeation.	fractions are analyzed by SDS-PAGE. Protein containing fractions are subjected to a second purification step through size exclusion chromatography. Eluate fractions are analyzed by SDS-PAGE and Western blot.
Purification:	the Expasy's protparam tool to determine the absorption coefficient of each protein. The protein is purified from the cleared cell lysate using Rho1D4 capture materials. Eluate
	The protein's absorbance will be measured in several dilutions and is measured against its specific reference buffer. The concentration of the protein is calculated using its specific absorption coefficient. We use
	The concentration of our recombinant proteins is measured using the absorbance at 280nm.

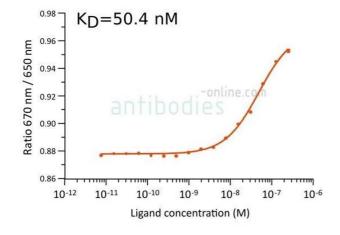
Application Details

	though.
Comment:	Further modifications:
	- furin cleavage site "682-RRAR SV-687" mutated to "682-GSAG PP-687"
	- C-terminal Rho1D4 tag fused with spacer "GSSG" to protein sequence
	Size: 1286 amino acids (including Rho1D4 tag and linker)
Restrictions:	For Research Use only

Handling

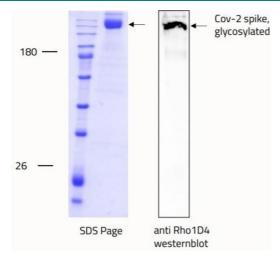
Buffer:	20 mM Hepes pH 7.5; 150 mM NaCl, 0.001 % LMNG
Handling Advice:	Avoid repeated freeze-thaw cycles.
Storage:	-80 °C
Expiry Date:	Unlimited (if stored properly)

Images



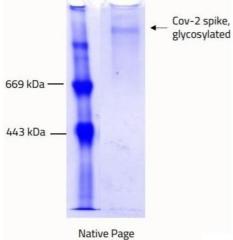
Binding Studies

Image 1. Microscale thermophoresis measurement of binding of anti- SARS-CoV-2 Spike antibody AA 319-541 MM117 (ABIN7042145) to SARS-CoV-2 Spike (Trimer) protein (ABIN6952670). The determined dissociation constant KD is indicated.



Western Blotting

Image 2.



Blue-native PAGE

Image 3.

Please check the product details page for more images. Overall 5 images are available for ABIN6952670.