

Datasheet for ABIN6999606

SARS-CoV-2 Spike Protein (B.1.617.2 - delta) (rho-1D4 tag)[Go to Product page](#)**3** Images

Overview

Quantity:	500 µg
Target:	SARS-CoV-2 Spike
Protein Characteristics:	B.1.617.2 - delta
Origin:	SARS Coronavirus-2 (SARS-CoV-2), SARS CoV-2 Delta
Source:	HEK-293 Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This SARS-CoV-2 Spike protein is labelled with rho-1D4 tag.
Application:	ELISA, Ligand Binding Assay (LBA)

Product Details

Purpose:	This is the spike protein of the mutant strain B.1.617, also commonly known as the "Delta mutant".
Sequence:	Full-length sequence (aa 1 – 1273), 1284 amino acids (including Rho1D4 tag and linker)
Specificity:	Mutation that differ from "original" SPIKE protein: T19R, Del 157-158, L452R, T478K, D614G, P681R, D950N
Characteristics:	All viruses undergo fast mutations and adept quickly to the countermeasures that the immune systems creates against them. SARS-CoV-2 of the COVID-19 pandemic is no exception here. During the pandemic multiple mutant strains arose.
Purification:	Affinity Chromatography
Purity:	> 98% as derermined by SDS-PAGE

Target Details

Target:	SARS-CoV-2 Spike
Alternative Name:	SARS2 Spike glycoprotein (SARS-CoV-2 Spike Products)
Target Type:	Viral Protein
Molecular Weight:	141903 Da
UniProt:	P0DTC2

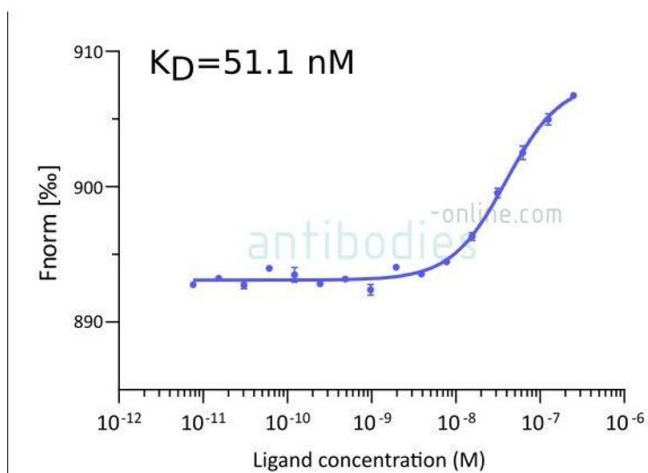
Application Details

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
Restrictions:	For Research Use only

Handling

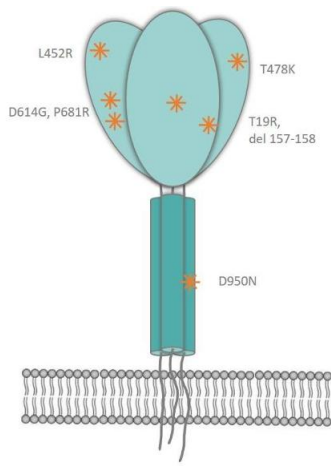
Format:	Liquid
Buffer:	20 mM HEPES pH 7.5; 150 mM NaCl, 0.001 % LMNG
Storage:	-80 °C
Storage Comment:	Store at -80°C. Avoid freeze-thaw cycles

Images



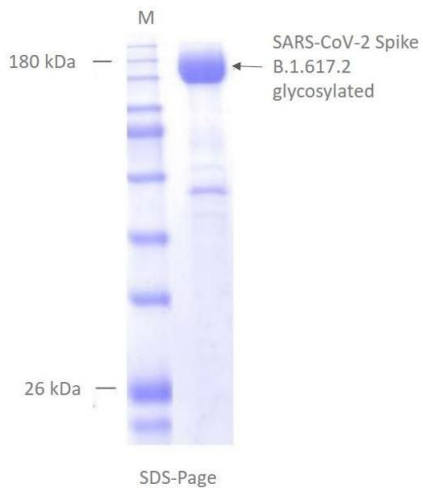
Binding Studies

Image 1. Microscale thermophoresis measurement of binding of anti-SARS-CoV-2 Spike S1 antibody (RBD) CR3022 (ABIN6952546) to SARS-CoV-2 Spike (B.1.617.2 delta lineage) protein (ABIN6999328). The determined dissociation constant K_D is indicated.



Mutant strain B.1.617.2

Image 2. SARS CoV-2 Spike B.1.617.2 Mutation (delta)



SDS-PAGE
Image 3. SDS-Page of purified SPIKE in detergent mycelle.