Datasheet for ABIN6963740

SARS-CoV-2 Spike Protein (B.1.351 - beta) (rho-1D4 tag)

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Overview

Quantity:	100 µg
Target:	SARS-CoV-2 Spike
Protein Characteristics:	B.1.351 - beta
Origin:	SARS Coronavirus-2 (SARS-CoV-2), SARS CoV-2 Beta
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.1.351, also commonly known as the "South Africa mutant".
Specificity:	Mutation that differ from canonical sequence of SPIKE protein: del 144, K417N, E484K, N501Y, A570D, D614G, P681H, T716I, S982A, D1118H
Characteristics:	"SARS CoV-2 full-length Spike B.1.351 Mutation" 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. To help the science combat these mutants we offer the SPIKE protein of these mutants in full-length and active in its native trimeric form, stabilized with the LMNG detergent.
Purification:	affinity chromatography

Product Details

Purity:	> 98 % as determined 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:	142114 Da
UniProt:	P0DTC2

Application Details

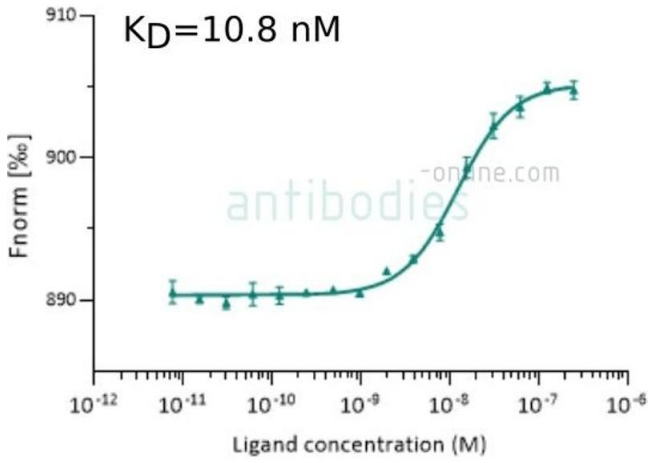
Application Notes:	ELISA assays, Ligand binding assays (e.g. SPR), Biochemical and biophysical analyses
Comment:	Further modifications: - furin cleavage site "682-RRAR|SV-687" mutated to "682-GSAG|PP-687" - C-terminal Rho1D4 tag fused with spacer "GSSG" to protein sequence Size: 1286 amino acids (including Rho1D4 tag and linker)
Restrictions:	For Research Use only

Handling

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

Publications

Product cited in:	Treco, Huan, Varzavand, Fairley, Messingham: "Elevated levels of sCD48 are inversely correlated with markers of disease activity in bullous pemphigoid." in: **Experimental dermatology**, (2022) (PubMed).



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.1.351 lineage) protein (ABIN6963740). The determined dissociation constant K_D is indicated.

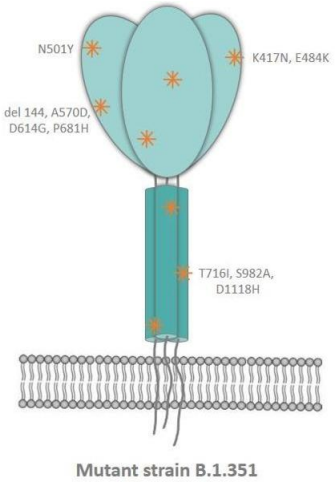
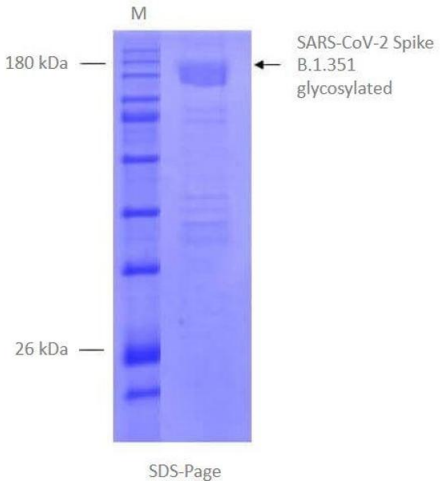


Image 2. SARS CoV-2 Spike Protein B.1.351 Mutation (South Africa Mutant)



SDS-PAGE

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

Please check the product details page for more images. Overall 4 images are available for ABIN6963740.