antibodies

Datasheet for ABIN6963742 SARS-CoV-2 Spike Protein (B.1.1.7 - alpha) (rho-1D4 tag)

4 Images

2 Publications



Overview

Quantity:	100 µg
Target:	SARS-CoV-2 Spike
Protein Characteristics:	B.1.1.7 - alpha
Origin:	SARS Coronavirus-2 (SARS-CoV-2), SARS CoV-2 Alpha
Source:	HEK-293 Cells
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.1.1.7, also commonly known as the "UK / Great
	Britain mutant".
Sequence:	Full-length sequence (aa 1 - 1273), del 69, del 70, del 144, N501Y, A570D, D614G, P681H, T716I,
	S982A, D1118H
	furin cleavage site ""RRAR"" mutated to ""GSAG"", KV986PP
	C-terminal Rho1D4 tag fused with spacer ""GSSG"" to protein sequence
Specificity:	Mutation that differ from canonical sequence of SPIKE protein: del 69-70, del 144, N501Y,
	A570D, D614G, P681H, T716I, S982A, D1118H
Characteristics:	"SARS CoV-2 full-length Spike B.1.1.7 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,

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Product Details

	stabilized with the LMNG detergent.
Purification:	affinity chromatography
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

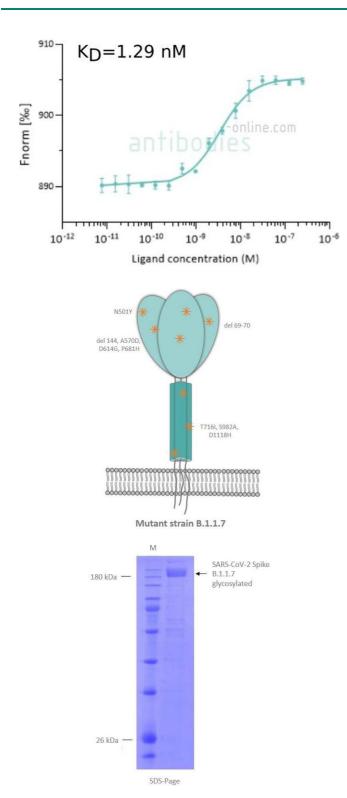
Handling

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:Albenzio, Santillo, Ciliberti, Figliola, Caroprese, Polito, Messina: "Milk nutrition and childhood
epilepsy: An ex vivo study on cytokines and oxidative stress in response to milk protein
fractions." in: Journal of dairy science, Vol. 101, Issue 6, pp. 4842-4852, (2018) (PubMed).

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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.1.1.7 lineage) protein (ABIN6963742). The determined dissociation constant K_D is indicated.

Image 2. SARS CoV-2 Spike Protein B.1.1.7 Mutation (UK / Great Britain 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 ABIN6963742.

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