.-online.com antibodies

Datasheet for ABIN6964443 SARS-CoV-2 Spike Protein (P.1 - gamma) (rho-1D4 tag)

4 Image	S
---------	---

2 Publications



Overview

Quantity:	100 µg
Target:	SARS-CoV-2 Spike
Protein Characteristics:	P.1 - gamma
Origin:	SARS Coronavirus-2 (SARS-CoV-2), SARS CoV-2 Gamma
Source:	HEK-293 Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This SARS-CoV-2 Spike protein is labelled with rho-1D4 tag.

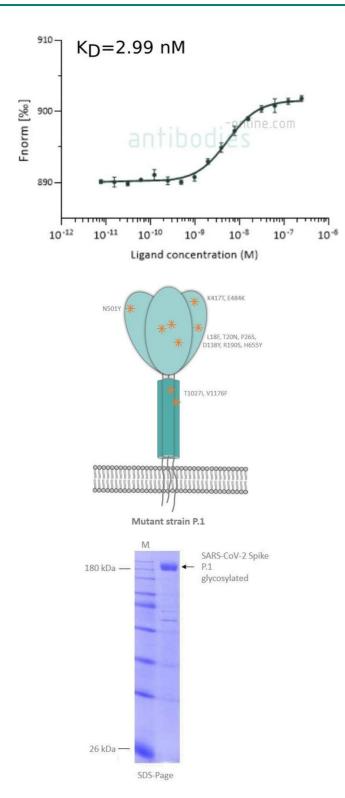
Product Details

Purpose:	This is the spike protein of the mutant strain P.1, also commonly known as the "Brazil mutant".
Specificity:	Mutation that differ from canonical sequence of SPIKE protein: L18F, T20N, P26S, D138Y,
	R190S, K417T, E484K, N501Y, H655Y, T1027I, V1176F
Characteristics:	"SARS CoV-2 full-length Spike P.1 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
Purity:	> 98 % as determined by SDS-PAGE

Order at www.antibodies-online.com | www.antikoerper-online.de | www.anticorps-enligne.fr | www.antibodies-online.cn International: +49 (0)241 95 163 153 | USA & Canada: +1 877 302 8632 | support@antibodies-online.com Page 1/3 | Product datasheet for ABIN6964443 | 09/10/2023 | Copyright antibodies-online. All rights reserved.

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	
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:	Erickson, Logsdon, Rhea, Hansen, Holden, Banks, Smith, German, Farr, Morley, Weaver, Hirsch,
	Kovac, Kontsekova, Baumann, Omer, Raber: "Blood-brain barrier penetration of non-replicating
	SARS-CoV-2 and S1 variants of concern induce neuroinflammation which is accentuated in a
	SARS-CoV-2 and S1 variants of concern induce neuroinflammation which is accentuated in a mouse model of Alzheimer's disease." in: Brain, behavior, and immunity , Vol. 109, pp. 251-268,
	mouse model of Alzheimer's disease." in: Brain, behavior, and immunity, Vol. 109, pp. 251-268,
	mouse model of Alzheimer's disease." in: Brain, behavior, and immunity , Vol. 109, pp. 251-268, (2023) (PubMed).

Order at www.antibodies-online.com | www.antikoerper-online.de | www.anticorps-enligne.fr | www.antibodies-online.cn International: +49 (0)241 95 163 153 | USA & Canada: +1 877 302 8632 | support@antibodies-online.com Page 2/3 | Product datasheet for ABIN6964443 | 09/10/2023 | Copyright antibodies-online. All rights reserved.



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 (P.1 lineage) protein (ABIN6964443). The determined dissociation constant K_D is indicated.

Image 2. SARS CoV-2 Spike P.1 Mutation (Bazil 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 ABIN6964443.

Order at www.antibodies-online.com | www.antikoerper-online.de | www.anticorps-enligne.fr | www.antibodies-online.cn International: +49 (0)241 95 163 153 | USA & Canada: +1 877 302 8632 | support@antibodies-online.com Page 3/3 | Product datasheet for ABIN6964443 | 09/10/2023 | Copyright antibodies-online. All rights reserved.