

Datasheet for ABIN6976302

**SARS-CoV-2 Spike Protein (B.1.617.1 - kappa) (rho-1D4 tag)**[Go to Product page](#)

## 4 Images

## Overview

Quantity:	100 µg
Target:	SARS-CoV-2 Spike
Protein Characteristics:	B.1.617.1 - kappa
Origin:	SARS Coronavirus-2 (SARS-CoV-2), SARS CoV-2 Kappa
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 "India" or "Kappa mutant".
Sequence:	1286 amino acids (including Rho1D4 tag and linker)
Specificity:	Mutation that differ from "original" SPIKE protein: G142D, E154K, L452R, E484Q, D614G, P681R, Q1071H
Characteristics:	<p>"SARS CoV-2 full-length Spike B.1.617 Mutation"</p> <p>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.</p> <p>During the pandemic multiple mutant strains arose. To help the science combat these mutants we offer these mutant SPIKE proteins.</p> <p>We offer the SPIKE protein of the mutants in full-length and active in their native trimeric form,</p>

## Product Details

stabilized with the LMNG detergent.

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

Background: All viruses undergo fast mutations and adapt quickly to the countermeasures that the immune systems creates. SARS-CoV-2 of the COVID-19 pandemic is no exception to this. During the pandemic multiple mutant strains arose.

Molecular Weight: 142190.43 Da

UniProt: [P0DTC2](#)

## Application Details

Application Notes: Optimal working dilution should be determined by the investigator.

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

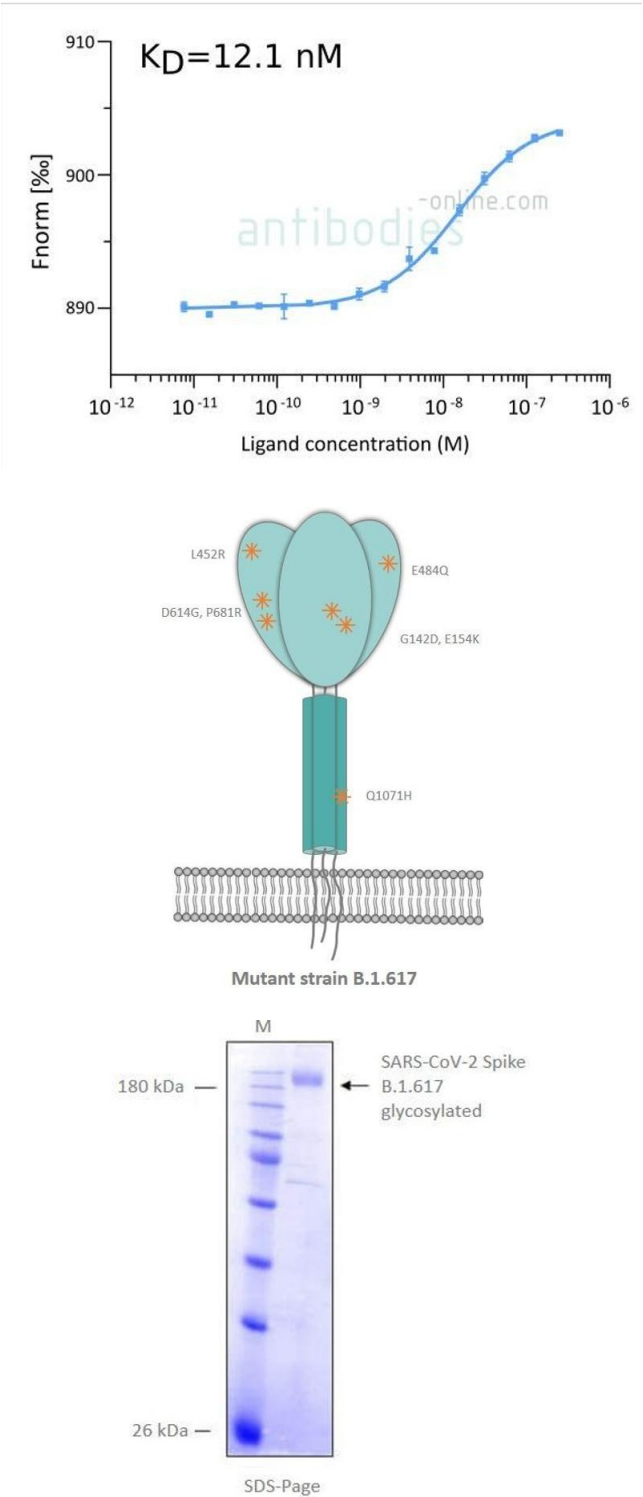
## Handling

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



### 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.1.617.1 kappa lineage) protein (ABIN6976302). The determined dissociation constant  $K_D$  is indicated.

**Image 2.** SARS CoV-2 Spike B.1.617 Mutation (India Mutant)

### SDS-PAGE

**Image 3.** SDS-Page of purified SPIKE from B.1.617 / Kappa / Indian mutant stabilized in detergent mycelle.

Please check the [product details page](#) for more images. Overall 4 images are available for ABIN6976302.