

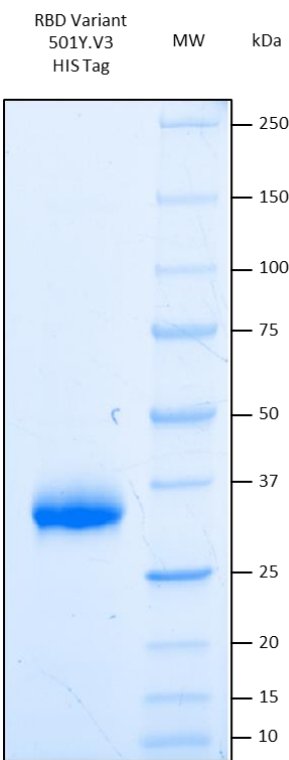
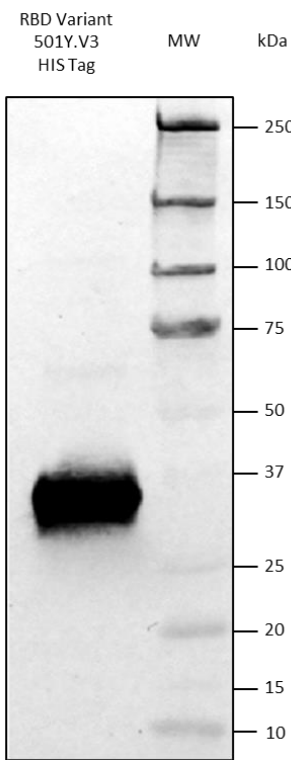
DESCRIPTION

<i>Description</i>	Recombinant Human Coronavirus SARS-CoV-2 Spike Protein S1 subunit, Receptor-Binding Domain (RBD), variant 501Y.V3, Lineage B.1.1.248 (P1, 20J/501Y.V3, Brazil & Japan)
<i>Sequence</i>	Native NCBI Accession Number: MN908947 Arg319-Phe541, with mutation K417T; E484K; N501Y
<i>Expression system</i>	HEK293 cells
<i>Tag</i>	HIS Tag C-Terminus
<i>Purification</i>	Affinity chromatography
<i>Extinction coefficient</i>	35340 M ⁻¹ .cm ⁻¹ Abs 0.1% (=1 g/l) 1.35 assuming all pairs of Cys residues form cystines
<i>Predicted Molecular Weight</i>	26.1 kDa

SPECIFICATIONS

<i>SDS Page</i>	Approx. 32 kDa
<i>Concentration</i>	1 mg/ml
<i>Purity</i>	>95% by SDS PAGE gel
<i>Formulation</i>	Liquid PBS
<i>Activity</i>	Recognized by CR3022 anti RBD recombinant antibody and Covid-19 positive patients serum samples.
<i>Stability and Storage</i>	Store at minimum -20°C. Avoid repeated freeze-thaw cycles

DATA

<p>SDS-PAGE 4-15% under reducing conditions and visualized by Coomassie blue staining showing a band at approx. 32 kDa</p>	<p>Western Blot: RBD Variant 501Y.V3 HIS Tag detected with anti-HIS-Tag antibody HRP conjugate showing a band at approx. 32 kDa</p>
	

SARS-CoV-2 Spike Glycoprotein (S1) RBD variant 501Y.V3 Lineage B.1.1.248

Spike protein (S protein) is one of four structural proteins of Coronavirus (SARS-Cov, SARS-Cov-2, MERS amongst other), S protein plays the most important role in viral attachment, fusion and entry, and it serves as a target for development of antibodies, entry inhibitors and vaccines.

In the S protein, the Receptor Binding Domain (RBD) mediates viral entry of SARS-Cov and SARS-Cov-2 into host cells by its interaction with the membrane receptor ACE2 (Angiotensin-converting enzyme 2).

This variant 501Y.V3 also named P1 (20J/501Y.V3) of SARS-CoV-2 was first identified in Japan on early January 2021 detected in four travelers from Brazil, and rapidly declared to be circulating in Brazil.

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Rec SARS-CoV-2 RBD variant 501Y.V3 Lineage B.1.1.248 715-H22-0BU

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