

Human CellExp™ SARS-CoV-2 Spike RBD (N501Y), Recombinant

01/21

CATALOG NO:	P1644-20 20 µg P1644-50 50 µg
ALTERNATE NAMES:	COVID-19 Spike RBD protein (N501Y); 2019-nCoV Spike RBD protein (N501Y); SARS-CoV-2 Mutant (N501Y); SARS-CoV-2 (N501Y) mutant protein
MOL. WT.	The predicted molecular weight is 26 kDa. The protein migrates as a 33-36 kDa band under reducing conditions
ACCESSION NO:	QHD43416.1
PURITY:	≥ 95% by SDS-PAGE
PURIFICATION METHOD:	Affinity purification chromatography
SOURCE:	Human cells
TAG:	6xHis tag
AMINO ACID SEQUENCE:	The target protein is expressed with the sequence Arg319-Ser541(N501Y) of SARS-CoV-2 Spike RBD protein fused with a 6xHis tag at the C-terminus.
FORM:	Liquid
FORMULATION:	In 0.2 µm filtered solution of PBS, pH 7.4
STORAGE CONDITIONS:	Divide into small aliquots and store at -70 °C. Avoid repeated freeze-thaw cycles.
DESCRIPTION:	SARS-CoV-2 Spike protein is a large type I transmembrane protein composed of S1 subunit and S2 subunit. During viral infection, the receptor-binding domain (RBD) of the S1 subunit is responsible for the recognition and binding of host receptor ACE2, while the S2 subunit mediates viral cell membrane fusion. The SARS-CoV-2-S1-RBD/ACE2 interaction mediates viral entry into the target cells. The N501Y mutation in the receptor-binding domain (RBD) of SARS-CoV-2 variants increases binding affinity to ACE2.
RELATED PRODUCTS:	Human CellExp™ Coronavirus Spike Protein (SARS-CoV-2; S1), Recombinant (P1524) Recombinant COVID-19 3C-like Proteinase (Cat. No. P1606) Recombinant SARS-CoV-2 3C-like Proteinase (Cat. No. P1550) Human CellExp™ Angiotensin-Converting Enzyme 2 (ACE2), Human Recombinant (P1535) Human CellExp™ SARS-CoV-2 Spike Protein (RBD), Recombinant (P1530)

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