

Rev04 DATASHEET

Update: Mar,01,2022

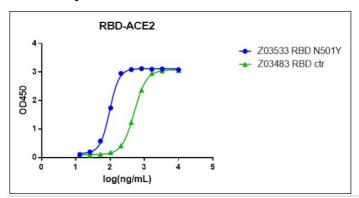
SARS-CoV-2 Spike protein (RBD, N501Y, His & Avi Tag)

Cat. No.: Z03533

Product Introduction

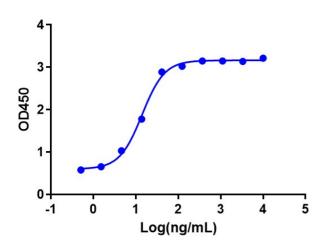
Species	SARS-CoV-2
Protein Construction	
	Spike RBD [Arg319-Ser591 (N501Y)] Avi Poly-His
	N-term C-term
Purity	> 90% as analyzed by SDS-PAGE
Endotoxin Level	$< 0.2 EU/\mu g$ of protein by gel clotting method
Biological Activity	SARS-CoV-2 Spike protein (RBD, N501Y, Avi & His Tag) can bind with human ACE2 (Cat. No.: Z03484) in functional ELISA assay.
Expression System	293 Cells
Theoretical Molecular Weight	30 kDa
Formulation	Supplied as a solution in PBS, pH 7.4.
Concentration	Please refer to the COA for the specific lot.
Storage & Stability	Upon receiving, this product remains stable for up to 6 months at -20°C or below. Avoid repeated freeze-thaw cycles.

Examples

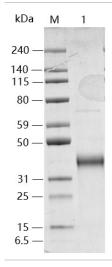


Immobilized ACE-2 Fc Chimera, Human (Cat. No. Z03484) at $2\mu g/mL$ can bind SARS-CoV-2 Spike protein (RBD, N501Y, His & Avi Tag) (Cat. No. Z03533) with serial dilutions. THETM His Tag Antibody [HRP], mAb, Mouse (Cat. No. A00612) is used as a secondary antibody (0.2 $\mu g/mL$).



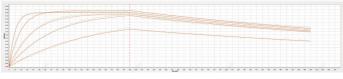


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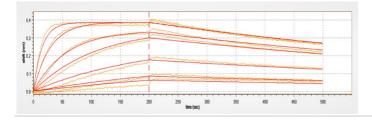


Lane 1: 1 μ g of SARS-CoV-2 Spike protein (RBD, N501Y, His & Avi Tag), reducing(R)

> 95% as analyzed by SDS-PAGE



Loaded ACE-2 Fc Chimera, Human (CHO-expressed) Protein (Cat. No. Z03516) on Protein A Biosensor, can bind SARS-CoV-2 Spike protein (RBD, N501Y, His & Avi Tag) (Cat. No. Z03533) with an affinity constant of 2.11 nM as determined in BLI assay.



Loaded ACE-2 Fc Chimera, Human (CHO-expressed) Protein (Cat. No. Z03516) on Protein A Biosensor, can bind SARS-CoV-2 Spike protein (RBD, N501Y, His & Avi Tag) (Cat. No. Z03533) with an affinity constant of 3.04 nM as determined in BLI assay.

Background

Target Background: SARS-CoV-2 (Severe Acute Respiratory Syndrome Coronavirus 2) also known as 2019-nCoV (2019 Novel Coronavirus) is a virus that causes illnesses ranging from the common cold to severe diseases. The spike protein mutation N501Y is one of six key contact residues within the receptor-binding domain (RBD) and has been identified as increasing binding affinity to human and murine ACE2.



Synonyms: SARS-CoV-2 SP RBD, N501Y; 2019-nCoV SP RBD, N501Y

For laboratory research use only. Direct human use, including taking orally and injection and clinical use are forbidden.