

Rev04 DATASHEET

Update: Mar, 01, 2022

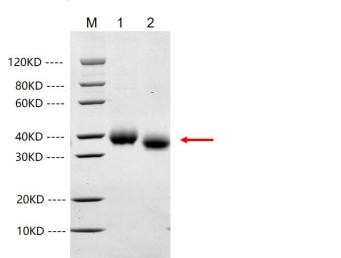
SARS-CoV-2 Spike protein (RBD, His & Avi tag)

Cat. No.: Z03483

Product Introduction

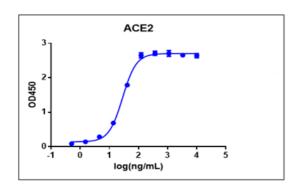
Species	SARS-CoV-2
Protein Construction	
	Spike RBD (Arg319-Ser591) Avi Poly-His Poly-His
	N-term C-term
Purity	> 95% as analyzed by SDS-PAGE
Endotoxin Level	$<$ 0.2 EU/ μg of protein by gel clotting method
Biological Activity	SARS-CoV-2 Spike protein (RBD, Avi & His Tag) can bind with Human ACE2 in functional ELISA assay.
Expression System	293 Cells
Theoretical Molecular Weight	30 kDa
Formulation	Supplied as a solution in PBS pH 7.2.
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



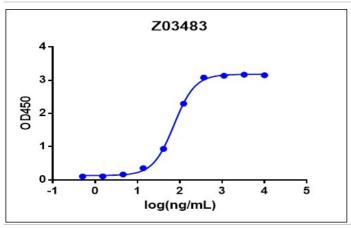
- 1: 2 µg of RBD, reducing (R)
- 2: 2 μg of RBD, non-reducing (N)
- > 90% as analyzed by SDS-PAGE





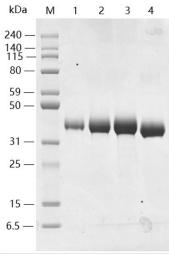
Immobilized ACE-2 Fc Chimera, Human (Cat. No. Z03484) at $2\mu g/mL$ can bind SARS-CoV-2 Spike protein (RBD, His & Avi tag) (Cat. No. Z03483) with a serial dilution.

THETM His Tag Antibody [HRP], mAb, Mouse (Cat. No. A00612) is used as a secondary antibody (0.2 μ g/mL).



Immobilized ACE-2 Fc Chimera, Human (Cat. No. Z03484) at 2 μ g/mL can bind SARS-CoV-2 Spike protein (RBD, His & Avi Tag) (Cat. No. Z03483) with a serial dilution.

THETM His Tag Antibody [HRP], mAb, Mouse (Cat.No.A00612) is used as a secondary antibody (0.1 μ g/mL).



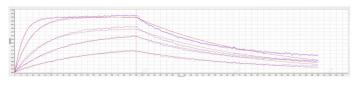
Lane 1: $1\mu g$ of SARS-CoV-2 Spike protein (RBD, His & Avi tag), reducing(R)

Lane 2: 3µg of SARS-CoV-2 Spike protein (RBD, His & Avi tag), reducing(R)

Lane 3: $5\mu g$ of SARS-CoV-2 Spike protein (RBD, His & Avi tag), reducing(R)

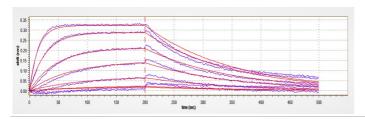
Lane 4: $5\mu g$ of SARS-CoV-2 Spike protein (RBD, His & Avi tag), non-reducing(NR)

> 95% as analyzed by SDS-PAGE

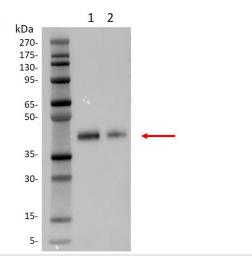


Loaded ACE-2 Fc Chimera, Human (CHO-expressed) Protein (Cat. No. Z03516) on Protein A Biosensor, can bind SARS-CoV-2 Spike protein (RBD, His & Avi Tag) (Cat. No. Z03483) with an affinity constant of 12.5 nM as determined in BLI assay.



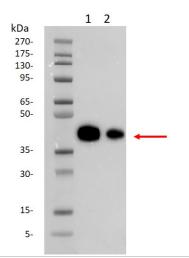


Loaded ACE-2 Fc Chimera, Human (CHO-expressed) Protein (Cat. No. Z03516) on Protein A Biosensor, can bind SARS-CoV-2 Spike protein (RBD, His & Avi tag) (Cat. No. Z03483) with an affinity constant of 18.6 nM as determined in BLI assay.



Western blot analysis of SARS-CoV-2 Spike protein (RBD, His & Avi tag) (GenScript, Z03483) using His Antibody(GenScript, A00186).

Lane 1: 10 ng of Z03483 Lane 2: 5 ng of Z03483



Western blot analysis of SARS-CoV-2 Spike protein (RBD, His & Avi tag) (GenScript, Z03483) using S1 Antibody(GenScript, A02053).

Lane 1: 10 ng of Z03483 Lane 2: 5 ng of Z03483

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. SARS-CoV-2 Spike Protein is composed of S1 domain and S2 domain. S1 contains a receptor-binding domain (RBD) that can specifically bind to angiotensin-converting enzyme 2 (ACE2), the receptor on target cells. It is believed that SARS-CoV-2 Spike Protein (RBD) has potential value for the diagnosis of the virus.

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

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

GenScript USA, Inc.