

Rev03
Update: Dec,14,2021

DATASHEET

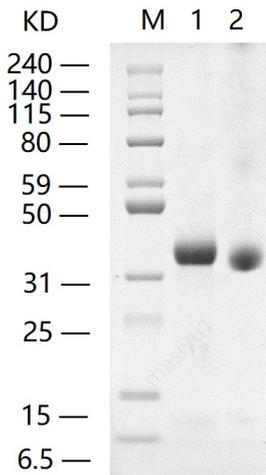
SARS-CoV-2 Spike protein (RBD, His Tag, CHO-expressed)

Cat. No.: Z03514

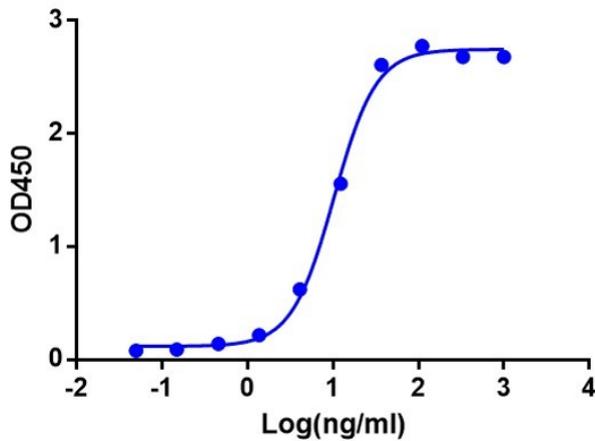
Product Introduction

Species	SARS-CoV-2
Protein Construction	
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, His Tag, CHO-expressed) can bind with Human ACE2 (Cat. No.: Z03484) in functional ELISA assay.
Expression System	CHO
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.

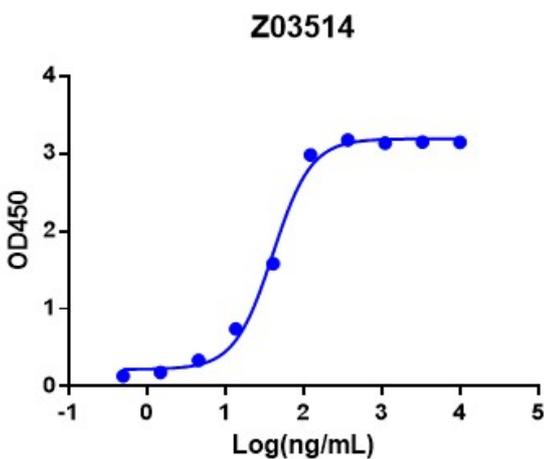
Examples



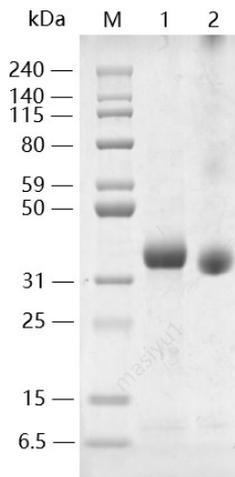
1: 2 μ g of Z03514, reducing (R)
 2: 2 μ g Z03514, non-reducing (N)
 > 95 % as determined by SDS-PAGE



ELISA binding of SARS-CoV-2 Spike S1 Antibody (HC2001), Human Chimeric (GenScript, A02038) with SARS-CoV-2 Spike protein (RBD, His Tag, CHO-expressed) (GenScript, Z03514) . Coating antigen: SARS-CoV-2 Spike protein (RBD, His Tag, CHO-expressed) (GenScript, Z03514) , 1 μ g/ml. SARS-CoV-2 Spike S1 Antibody (HC2001), Human Chimeric (GenScript, A02038) dilution start from 1 μ g/ml. EC50= 10.3 ng/ml.



Immobilized ACE-2 Fc Chimera, Human (Cat. No. Z03484) at 2 μ g/mL can bind SARS-CoV-2 Spike protein (RBD, His Tag, CHO-expressed) (Cat. No. Z03514) with a serial dilution. THE™ His Tag Antibody [HRP], mAb, Mouse (Cat.No.A00612) is used as a secondary antibody (0.2 μ g/mL).



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

Lane 2: 2 μ g of SARS-CoV-2 Spike protein (RBD, His Tag, CHO-expressed), non-reducing(NR)

> 95% as analyzed by SDS-PAGE

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.