Rev04
Update: Feb,23,2022

DATASHEET

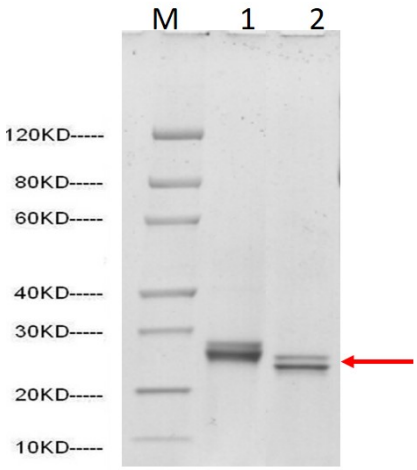
SARS-CoV-2 Spike protein (RBD, His Tag)

Cat. No.: Z03479

Product Introduction

Species	SARS-CoV-2
Protein Construction	Spike RBD (Pro330-Ser530) Accession # P0DTC2 — Poly-His N-term C-term
Purity	> 90% as analyzed by SDS-PAGE
Biological Activity	SARS-CoV-2 Spike protein (RBD, His Tag) can bind with Human ACE2 in functional ELISA assay.
Expression System	Sf9 insect cells
Theoretical Molecular Weight	25 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 S-RBD protein , reducing (R)
2: 2 μg of S-RBD protein, non-reducing (N)
> 90% as analyzed by SDS-PAGE

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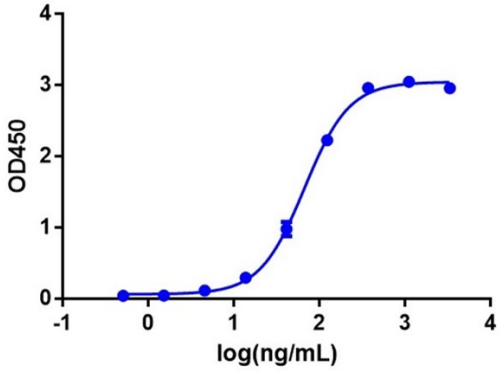
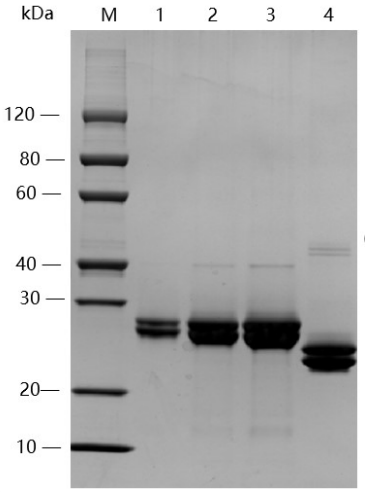
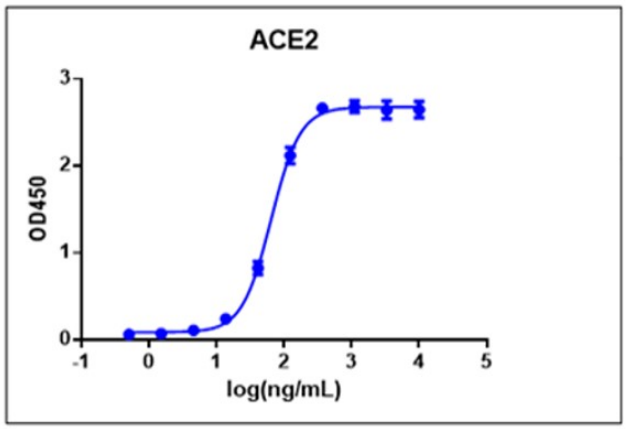


Immobilized ACE-2 Fc Chimera, Human (Cat. No. Z03484) at 2 μg/mL can bind SARS-CoV-2 Spike protein (RBD, His Tag) (Cat. No. Z03479) with a serial dilution.
THE™ His Tag Antibody [HRP], mAb, Mouse (Cat.No.A00612) is used as a secondary antibody (0.1 μg/mL).



Lane 1: 1μg of SARS-CoV-2 Spike protein (RBD, His Tag), reducing(R)
Lane 2: 3μg of SARS-CoV-2 Spike protein (RBD, His Tag), reducing(R)
Lane 3: 5μg of SARS-CoV-2 Spike protein (RBD, His Tag), reducing(R)
Lane 4: 5μg of SARS-CoV-2 Spike protein (RBD, His Tag), non-reducing(NR)
> 95% as analyzed by SDS-PAGE



SARS-CoV-2 Spike protein (RBD, His Tag) can bind with Human ACE2 in functional ELISA assay.

Background

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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 RBD

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

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