Rev03
Update: Dec,14,2021

DATASHEET

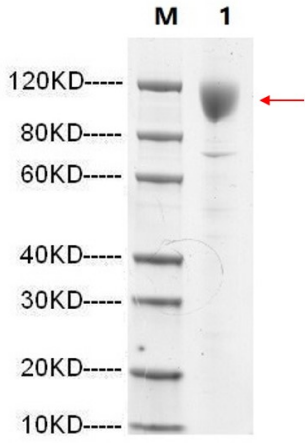
SARS-CoV-2 Spike protein (S1, D614G, His Tag)

Cat. No.: Z03507

Product Introduction

Species	SARS-CoV-2
Protein Construction	S1 protein (Gln14-Arg685) Accession # P0DTC2 — Poly-His N-term C-term
Purity	> 90% as analyzed by SDS-PAGE
Endotoxin Level	< 0.2 EU/μg of protein by gel clotting method
Biological Activity	SARS-CoV-2 Spike protein (S1, D614G, His Tag) can bind with human ACE2 (Cat.No.: Z03484) in functional ELISA assay.
Expression System	293 Cells
Theoretical Molecular Weight	79 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: 3μg of SARS-Cov-2 Spike protein (S1 D614G His Tag), reducing(R)
＞85% as determined by SDS-PAGE

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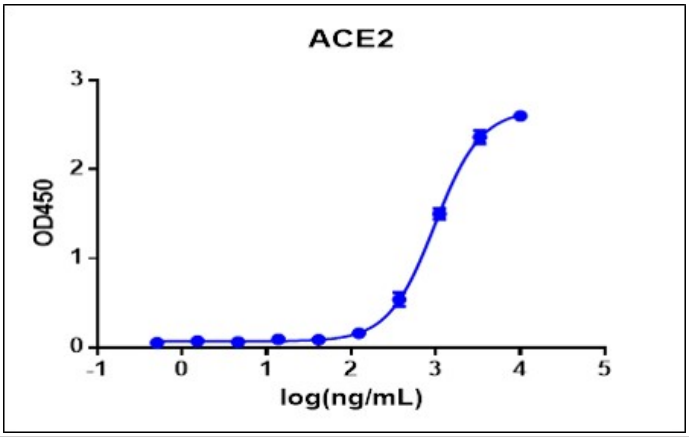
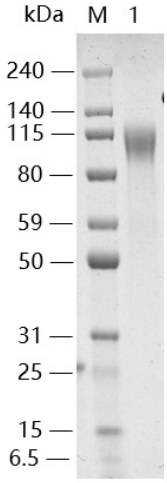


Immobilized ACE-2 Fc Chimera, Human (Cat. No. Z03484) at 2 μg/mL can bind SARS-CoV-2 Spike protein (S1, D614G, His Tag) (Cat. No. Z03507) with a serial dilution.
THE™ His Tag Antibody [HRP], mAb, Mouse (Cat.No.A00612) is used as a secondary antibody (0.1 μg/mL).



Lane 1: 1μg of SARS-CoV-2 Spike protein (S1, D614G, His Tag), reducing(R)
> 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. The spike protein mutation D614G became dominant during the globally pandemic. The D614G mutation enhances its replication ability in upper respiratory tract, transmission ability and viral loads in the patients' lung epithelial cells. It may also affect vaccine efficacy and antibody therapy.

Synonyms : SARS-CoV-2 S1 protein, D614G; 2019-nCoV S1 protein, D614G

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

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