


Rev03
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DATASHEET

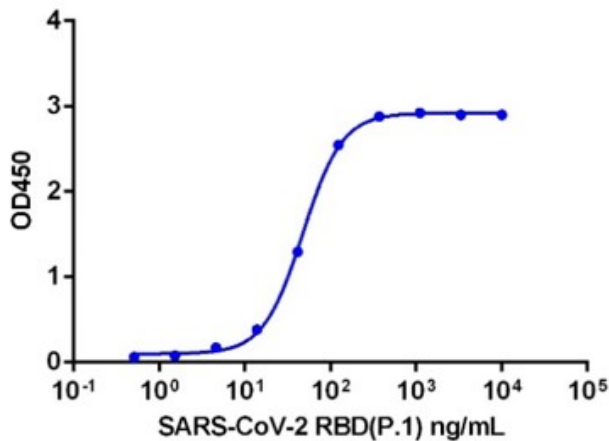
SARS-CoV-2 Spike protein (RBD, E484K, K417T, N501Y, Avi & His Tag)

Cat. No.: Z03600

Product Introduction

Species	SARS-CoV-2
Protein Construction	Expressed with the mutations of E484K, K417N, N501Y. 
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 (RBD, E484K, K417T, N501Y, Avi & His Tag) can bind with human ACE2 in functional ELISA assay.
Expression System	CHO
Theoretical Molecular Weight	33.7 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. Please avoid repeated freeze-thaw cycles.

Examples



Immobilized ACE-2 Fc Chimera, Human at 2 µg/mL can bind SARS-CoV-2 Spike protein (RBD, E484K, K417T, N501Y, Avi & His Tag) (Cat. No. Z03600) with a serial dilution. THE™ His Tag Antibody [HRP], mAb, Mouse(Cat.No.A00612) is used as a secondary antibody.

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. Lineage P.1, also known as the Brazil(ian) variant is one of the variants of SARS-CoV-2. This variant has 17 amino acid changes, ten of which are in its spike protein, including these three designated to be of particular concern: N501Y, E484K and K417T. SARS-CoV-2 Spike protein (RBD, E484K, K417T, N501Y, Avi & His Tag) carries a Avi Tag followed by a polyhistidine tag at the C-terminus. It has high binding affinity to human chimeric ACE2.

Synonyms : Lineage P.1; 20J/501Y.V3; VOC-202101/02; Brazil(ian) variant; Gamma variant

References :

1. [Variants: distribution of cases data. GOV.UK. Retrieved 27 February 2021.](#)
2. [COVID-19: Virologist says Brazilian coronavirus variant detected in UK is not the one 'of concern'.](#)
3. [Genomic characterisation of an emergent SARS-CoV-2 lineage in Manaus: preliminary findings.](#)

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