

Version : 02

Update : 05/14/2021

DATASHEET

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

Cat. No.: Z03600-100; Z03600-1

Size: 100µg / 1mg

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

Source: CHO

Species: SARS-CoV-2

Biological Activity: SARS-CoV-2 Spike protein (RBD, E484K, K417T, N501Y, Avi & His Tag) can bind with human ACE2 in functional ELISA assay.

Sequence: Accession#QHD43416.1(Arg319-Ser591)(E484K, K417T, N501Y)

Molecular Weight: 30 KDa (predicted on protein sequence)

Tag: C-terminus Avi & His Tag

Formulation: Liquid

Purity: >90% as analyzed by SDS-PAGE

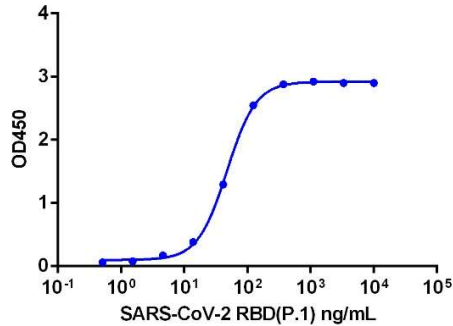
Storage buffer: PBS pH 7.4

Storage: Upon receiving, the product can be stored for 6 months at -20°C or below. Please avoid repeated freeze-thaw cycles.

Description:

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.

Data images:



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.

References:

1. Variants: distribution of cases data. GOV.UK. Retrieved 27 February 2021.
<https://www.gov.uk/government/publications/covid-19-variants-genomically-confirmed-case-numbers/variants-distribution-of-cases-data>
2. COVID-19: Virologist says Brazilian coronavirus variant detected in UK is not the one 'of concern'.
<https://news.sky.com/story/covid-19-one-of-two-brazilian-coronavirus-variants-detected-in-uk-says-virologist-12188419>
3. Genomic characterisation of an emergent SARS-CoV-2 lineage in Manaus: preliminary findings.
<https://virological.org/t/genomic-characterisation-of-an-emergent-sars-cov-2-lineage-in-manaus-preliminary-findings/586>

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