

Human IgG1 Anti SARS-CoV-2 Spike (S1) Antibody, Clone: CR3022

Product Data Sheet

Host: Human

Clone: CR3022

Isotype: IgG1, kappa

Cat. No.:

RM812422500

(0.5 mg)

Other names: Severe acute respiratory syndrome coronavirus 2 spike glycoprotein S1, 2019 novel coronavirus S1 protein, SARS-CoV-2 S1 subunit, COVID-19

Research topic

Immune Response, Infection and Inflammation, COVID-19

Preparation

This is a recombinant monoclonal antibody. The original monoclonal antibody was generated by sequencing peripheral blood lymphocytes of a patient exposed to the SARS-CoV.

Amino Acid Sequence

Antibody binds to both SARS-CoV and SARS-CoV-2 (COVID-19) with high affinity at amino acids 318-510 in the S1 domain of the Spike protein.

Species Reactivity

SARS-CoV and SARS-CoV-2 (COVID-19)

Purification Method

Affinity chromatography on a column with immobilized protein A.

Antibody Content

0.5 mg; concentration: 1.0 mg/ml

Formulation

Supplied as a liquid in PBS, 0.02% Proclin 300.

Shipping

At ambient temperature. Upon receipt, store the product at the temperature recommended below.

Storage/Stability

Short Term Storage: Up to 3 months at +4°C

Long Term Storage: -20°C

Expiration

See vial label.

Lot Number

See vial label.

Applications

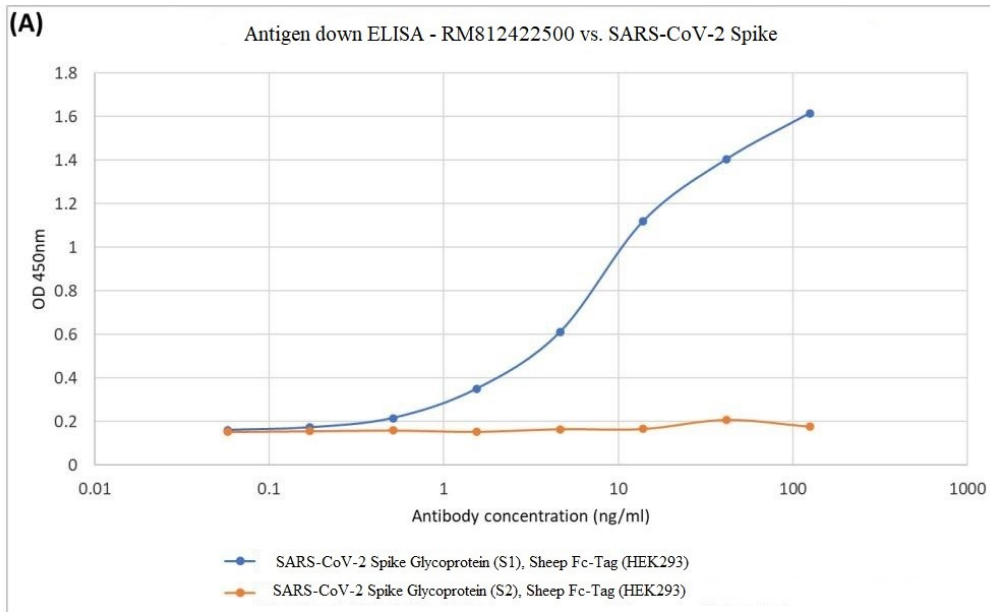
ELISA, NTRL, SPR, Crystallography

Note

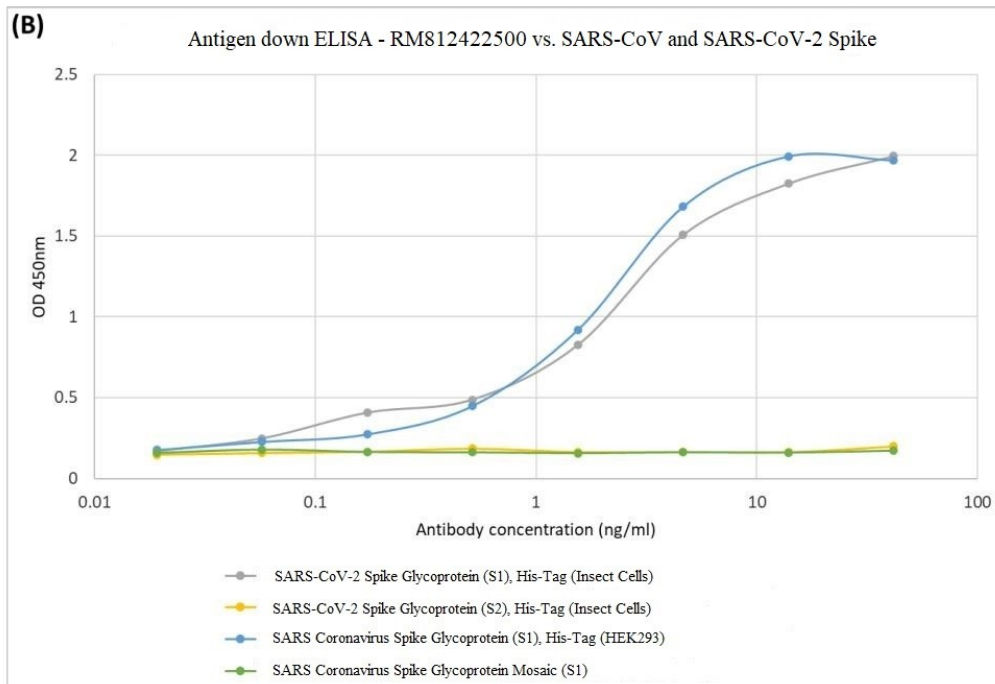
Products are for Research Use or for Further Manufacturing Use only. Not for Diagnostic or Therapeutic Use.

ELISA: Plate coated with the target proteins at 5 µg/ml. Primary antibodies were titrated on a 3-fold serial dilution starting at 125 ng/ml (A) or 41.6 ng/ml (B). Secondary antibody anti-human IgG conjugated to HRP used in the assay, at 1:4000 concentration.

(A) Antibody recognised SARS-CoV-2 spike protein subunit 1 (aa 1-674), but not SARS-CoV-2 spike protein, subunit 2 (aa 685-1211).



(B) Antibody recognised spike protein from SARS-CoV (subunit 1, aa 1-666) and SARS-CoV-2 (subunit 1, aa 1-674), produced in mammalian and insect cells, respectively. Antibody did not recognise SARS-CoV-2 spike protein, subunit 2 (aa 685-1211) or a spike mosaic protein, containing subunit 1 amino acids 12-53, 90-115, 171-203.



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