

## Antibody Datasheet

**Name:** Human IgG1 Anti SARS-CoV-2 Spike (S1) Antibody (CR3022): HRP Conjugate

**Product Code:** MAB12422-HRP-100

**Batch #:**

**Date of Manufacture:**

**Product Description:** This is a recombinant monoclonal antibody coupled to Horse Radish Peroxidase.

**Clone Number:** CR3022

**Isotype:** Human IgG1, Kappa

**Amount:** 0.1 mg

**Concentration:** mg/ml

**Presentation:** Liquid

**Buffer:** PBS + 1% BSA

**Preservative:** 0.1% Proclin 950

**Immunogen:** The original monoclonal antibody was generated by sequencing peripheral blood lymphocytes of a patient exposed to the SARS-CoV.

**Purification:** Protein A affinity purified.

**Specificity:** 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.

**Applications:** ELISA, NTRL, SPR, Crystallography.

**Application Notes:** This antibody also binds to P462L-substituted S318–510 fragments of the SARS spike protein. The binding epitope is only accessible in the open conformation of the spike protein. The original antibody was also reported to bind the SARS-CoV-2 RBD (KD of 6.3).

### Usage Guidelines

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

**Long Term Storage:** -20°C



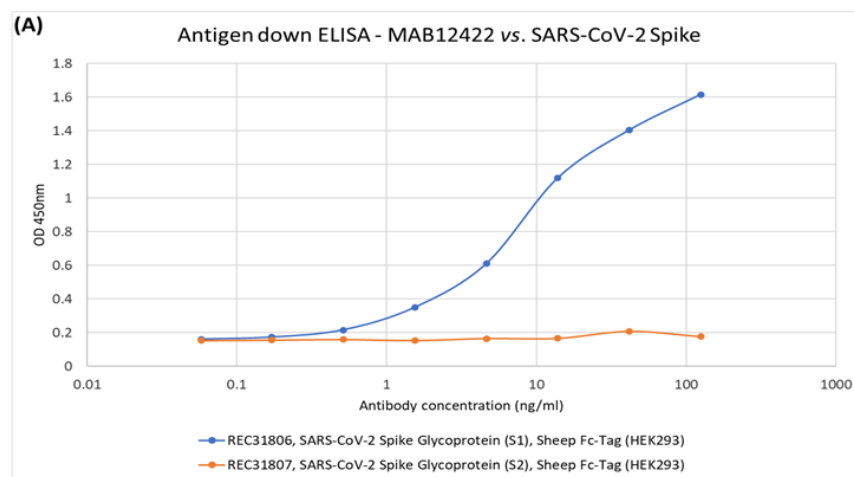
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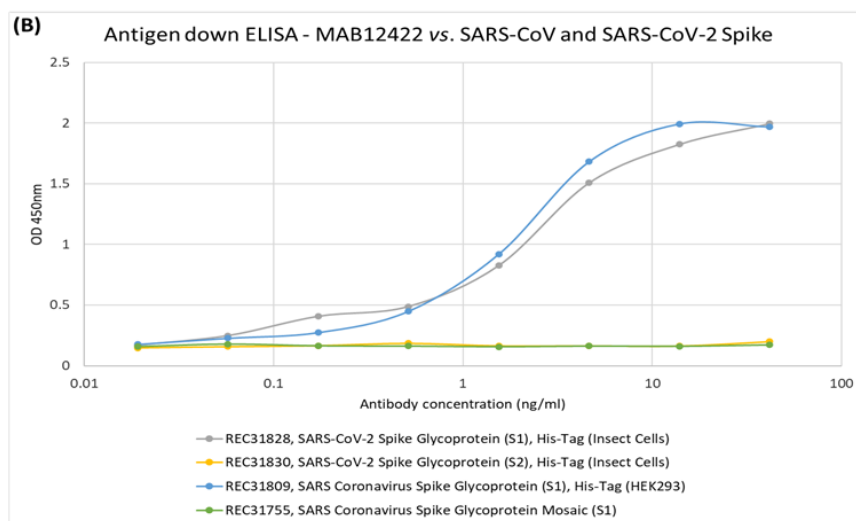
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**ELISA:** Plate coated with the target proteins at 5 µg/ml. Primary antibodies were titrated on a 3-fold serial dilution starting at 125 ng/ml (A) or 41.6 ng/ml (B). Secondary antibody anti-human IgG conjugated to HRP used in the assay, at 1:4000 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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**Products are for Research Use or for Further Manufacturing Use only. Not for Diagnostic or Therapeutic Use.**