

Antibody Datasheet

Name: Rabbit IgG Anti SARS-CoV-2 Spike (S1) Polyclonal Antibody

Product Code: PAB21471-100 / PAB21471-500

Product Description: Rabbit polyclonal to SARS-CoV-2 spike glycoprotein subunit 1 (S1).

Isotype: IgG

Batch #:

Amount: 0.1 mg / 0.5 mg

Concentration: 1.0 mg/ml

Presentation: Liquid

Buffer: PBS, 0.2µm filtered.

Preservative: 0.09% Sodium Azide

Immunogen: SARS-CoV-2 Spike (S1), REC31828

Purification: Protein Affinity Chromatography

Specificity: SARS-CoV-2. Antibody does not cross-react in ELISA with HCoV-229E full-length spike protein (REC31880).

Applications: ELISA, WB, IF

Application Notes: Working dilution must be determined by the user. Suggested starting ranges are 1:1000 for WB, 1:1000-1:3000 for ELISA.

Usage Guidelines

Short Term Storage: +4°C

Long Term Storage: -20°C

Storage Guidelines: Avoid freeze/thaw cycles

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

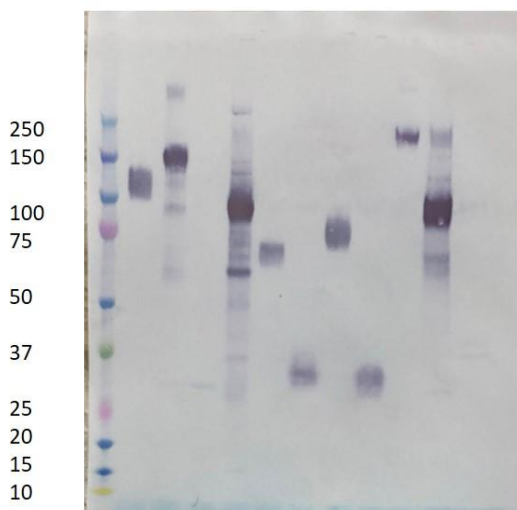
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Western Blot:

[kDa] M 1 2 3 4 5 6 7 8 9 10 11

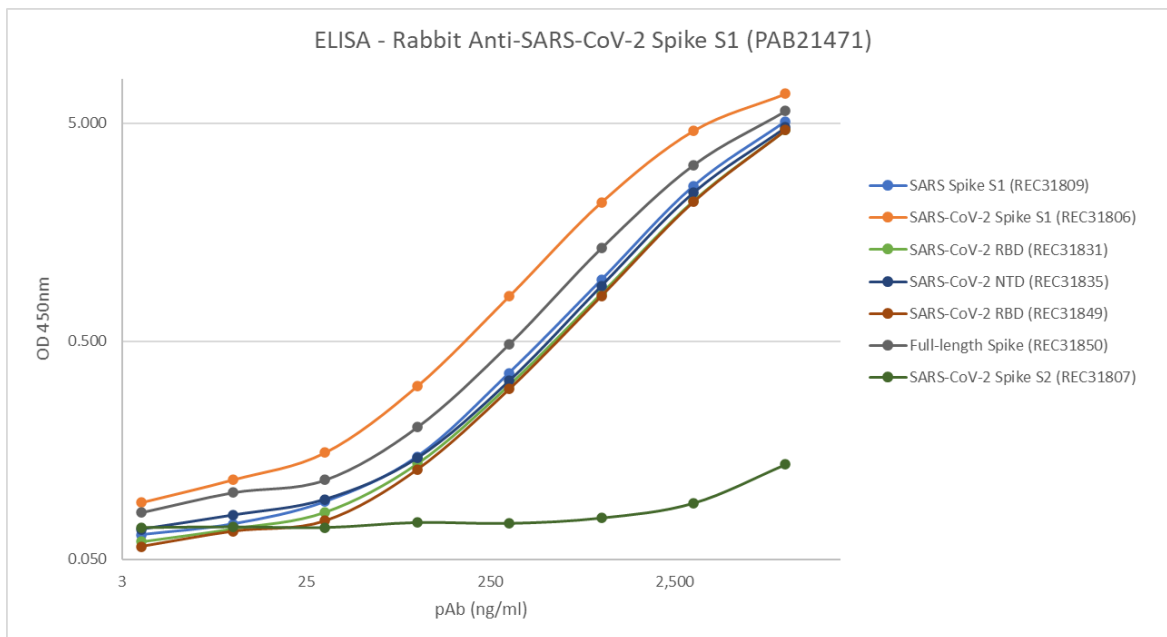


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|-----|----------|--|
| 1: | REC31809 | SARS Coronavirus Spike Glycoprotein (S1), His-Tag (HEK293) |
| 2: | REC31806 | SARS-CoV-2 Spike Glycoprotein (S1), Sheep Fc-Tag (HEK293) |
| 3: | REC31807 | SARS-CoV-2 Spike Glycoprotein (S2), Sheep Fc-Tag (HEK293) |
| 4: | REC31828 | SARS-CoV-2 Spike Glycoprotein (S1), His-Tag (Insect Cells) |
| 5: | REC31830 | SARS-CoV-2 Spike Glycoprotein (S2), His-Tag (Insect Cells) |
| 6: | REC31831 | SARS-CoV-2 Spike Glycoprotein (S1) RBD, His-Tag (CHO) |
| 7: | REC31835 | SARS-CoV-2 Spike N-Terminal Domain (NTD), Sheep Fc-Tag (HEK293) |
| 8: | REC31849 | SARS-CoV-2 Spike Glycoprotein (S1) RBD, His-Tag (HEK293) |
| 9: | REC31850 | Spike Glycoprotein (Full-Length), His-Tag (HEK293) |
| 10: | REC31855 | MERS Coronavirus Spike Glycoprotein (S1), His-Tag (Insect Cells) |
| 11: | REC31686 | His-tagged control protein, Human CLEC4M (L-SIGN), His-Tag |

Recombinant protein (100ng) was loaded into each lane and separated by SDS-PAGE in a Novex 4-12% Bis-Tris gel at 200V. Western blot was carried out using rabbit anti SARS-CoV-2 Spike (S1) polyclonal antibody (1mg/ml, 1:1000) and STAR124P secondary antibody (1mg/ml, 1:1000).

Antibody detected SARS-CoV-2 spike S1 subunit (lanes 2 and 4), receptor binding domain (RBD) (lanes 6 and 8), spike N-terminal domain (NTD) (lane 7) and full-length spike protein (lane 9). Antibody also detected SARS-CoV spike S1 subunit (lane 1). Antibody did not detect SARS-CoV-2 S1 subunit 2 (lane 3) or control protein (lane 11). A band was visible for insect-cell expressed spike subunit 2 and insect-cell expressed MERS-CoV S1, likely due to the presence of host-cell proteins (antigen was purified from baculovirus-infected insect cells).

ELISA:



Plates coated overnight at 2-8°C in DPBS, antigen (1.0µg/ml) in 100µl/well. Blocked 2 x 300µl/well DPBS + 1% BSA, soaked 1 hour. Washed 1 X 300µl/well PBS + 0.1% Tween 20. Dilutions of antibody (100µl/well) applied in DPBS/1% BSA/0.1% Tween 20. Incubated shaken 3 hours 23°C. Washed 3 X 300µl/well PBS + 0.1% Tween 20. Anti-rabbit Ig-HRP (Sigma A0545, 1:10,000) in DPBS/1% BSA/0.1% Tween 20, 100µl/well. Incubated shaken 3 hours, 23°C. Washed 6 X 300µl/well PBS + 0.1% Tween 20. TMB (Europa MO701A) added (100µl/well), 15 min static incubation. Stopped (200µl 1M HCl) and read at 450nm. ODs out of range estimated from OD 405nm reading.

Antibody recognised SARS-CoV and SARS-CoV-2 Spike S1 subunit. It also recognised SARS-CoV-2 receptor binding domain (RBD), N-terminal domain (NTD) and full-length spike protein. It did not cross-react with SARS-CoV-2 Spike S2 subunit.