Langford Locks
Kidlington
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Antibody Datasheet

Name: Rabbit IgG Anti SARS-CoV-2 Spike (S2) Polyclonal Antibody

Product Code: PAB21472-100 / PAB21472-500

Product Description: Rabbit polyclonal to SARS-CoV-2 spike glycoprotein subunit 2 (S2).

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 (S2), REC31830

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

Application Notes: Working dilution must be determined by the user. Suggested starting ranges are 1:1000 for WB, 1:4000-1:14,000 for ELISA.

Usage Guidelines

Short Term Storage: +4ºC

Long Term Storage: -20ºC

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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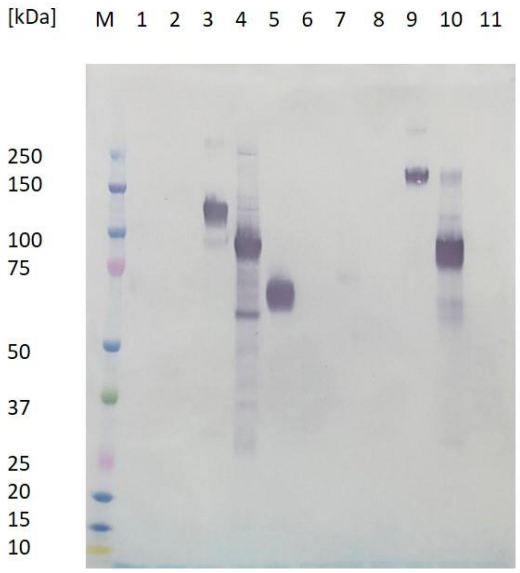
Western Blot:



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 (S2) polyclonal antibody (1mg/ml, 1:1000) and STAR124P secondary antibody (1mg/ml, 1:1000).

Antibody detected SARS-CoV-2 spike S2 subunit (lanes 3 and 5), and full-length spike protein (lane 9). It did not detect SARS-CoV-2 spike S1 subunit (lane 2 and 4), receptor binding domain (RBD) (lanes 6 and 8), spike N-terminal domain (NTD) (lane 7), SARS-CoV spike S1 subunit (lane 1) or control protein (lane 11). A band was visible for insect-cell expressed spike subunit 1 and insect-cell expressed MERS-CoV S1, likely due to the presence of host-cell proteins (antigen was purified from baculovirus-infected insect cells).

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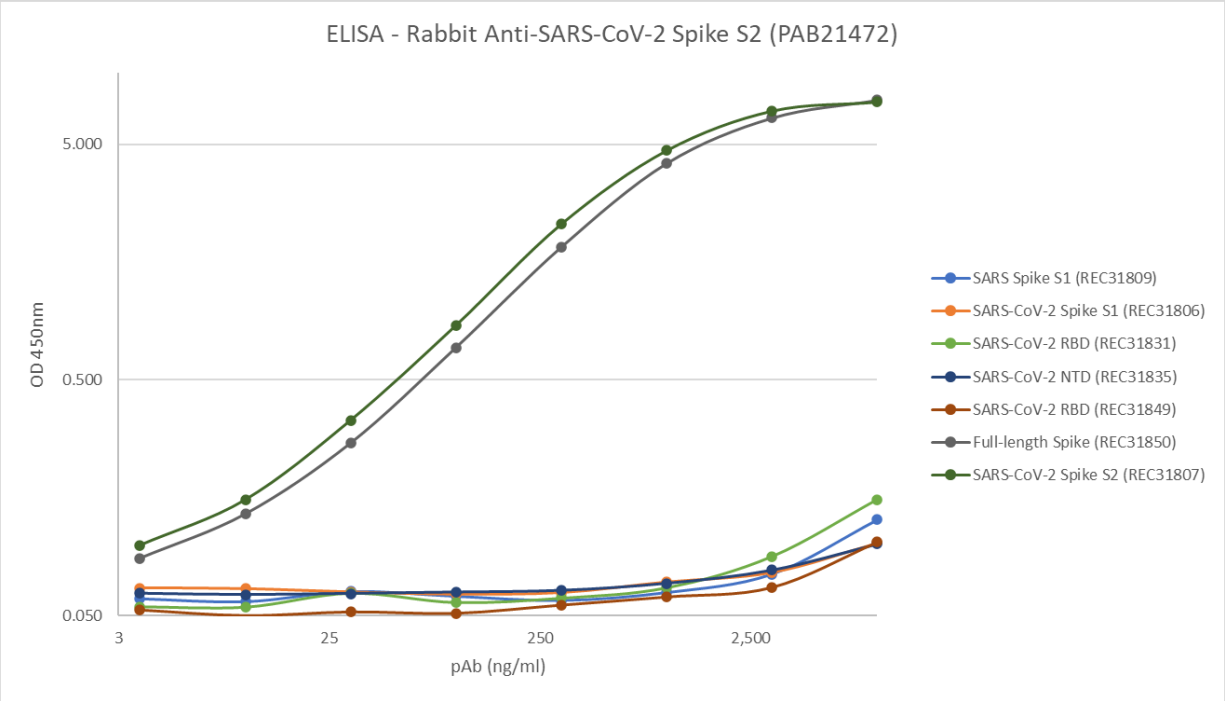
ELISA:



Plates coated overnight at 2-8ºC 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 23ºC. 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, 23ºC. 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 recognises SARS-CoV-2 Spike S2 subunit and full-length spike. It does not cross-react with SARS-CoV-2 Spike S1 subunit, receptor binding domain (RBD), or N-terminal domain (NTD).