

# Product Datasheet

## SARS Spike Protein Antibody (1A9) NBP3-48646

Unit Size: 100 ul

Store at 4C short term. Aliquot and store at -20C long term. Avoid freeze-thaw cycles.

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Updated 9/25/2025 v.20.1

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**NBP3-48646****SARS Spike Protein Antibody (1A9)**

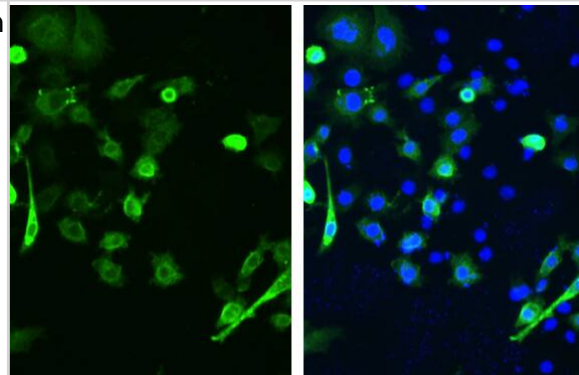
<b>Product Information</b>	
<b>Unit Size</b>	100 ul
<b>Concentration</b>	Concentrations vary lot to lot. See vial label for concentration. If unlisted please contact technical services.
<b>Storage</b>	Store at 4C short term. Aliquot and store at -20C long term. Avoid freeze-thaw cycles.
<b>Clonality</b>	Monoclonal
<b>Clone</b>	1A9
<b>Preservative</b>	No Preservative
<b>Isotype</b>	IgG1
<b>Purity</b>	Protein G purified
<b>Buffer</b>	PBS, 20% Glycerol

<b>Product Description</b>	
<b>Description</b>	Novus Biologicals Mouse SARS Spike Protein Antibody (1A9) (NBP3-48646) is a monoclonal antibody validated for use in IHC, WB, ELISA, Flow, ICC/IF and IP. All Novus Biologicals antibodies are covered by our 100% guarantee.
<b>Host</b>	Mouse
<b>Species</b>	SARS-CoV, SARS-CoV-2
<b>Immunogen</b>	The immunogen used to generate this antibody corresponds to SARS-CoV S10 (within S2 domain) protein (1029-1192 a.a.). (SARS-CoV strain: Sin2774) The exact sequence is proprietary.

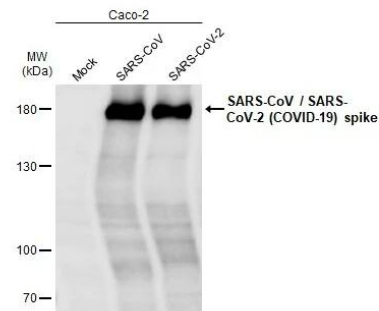
<b>Product Application Details</b>	
<b>Applications</b>	Western Blot, Immunohistochemistry-Paraffin, ELISA, Electron Microscopy, Flow Cytometry, Immunocytochemistry/ Immunofluorescence, Immunohistochemistry, Immunohistochemistry-Frozen, Immunoprecipitation, Block/Neutralize
<b>Recommended Dilutions</b>	Western Blot 1:500-1:3000, Flow Cytometry Assay dependent, ELISA Assay dependent, Immunohistochemistry, Immunocytochemistry/ Immunofluorescence 1:100-1:2000, Immunoprecipitation Assay dependent, Immunohistochemistry-Paraffin 1:100-1:500, Immunohistochemistry-Frozen Assay dependent, Electron Microscopy Assay dependent, Block/Neutralize Assay dependent

**Images**

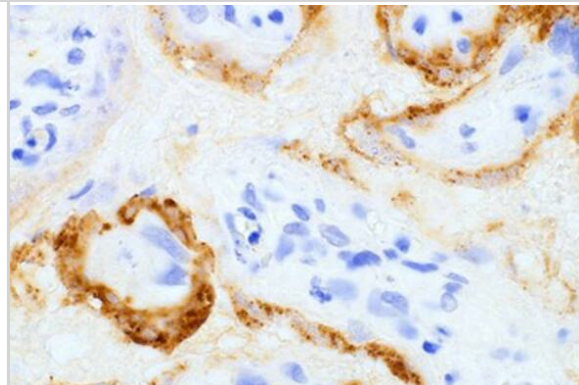
BHK-21 cells transfected with full-length SARS-CoV-2 spike were fixed in 4% paraformaldehyde at RT for 30 min. Green: SARS-CoV-2 (COVID-19) spike stained by SARS-CoV / SARS-CoV-2 (COVID-19) spike antibody [1A9] diluted at 1:2000.



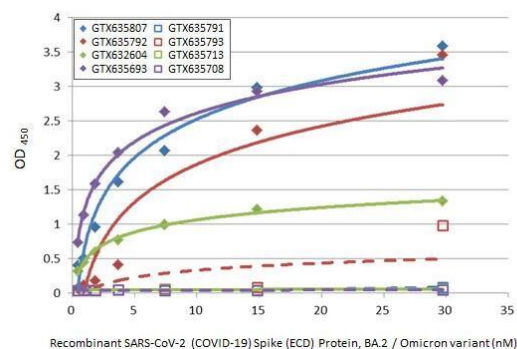
Non-infected (–) and infected (+, 48h pi MOI 0.01) Caco-2 whole cell extracts were separated by SDS-PAGE, and the membrane was blotted with SARS-CoV / SARS-CoV-2 (COVID-19) spike antibody [1A9] diluted at 1:1000.



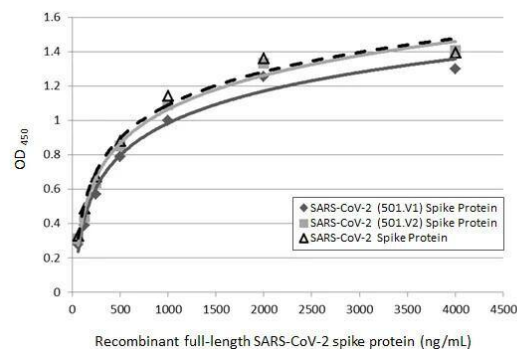
SARS-CoV / SARS-CoV-2 (COVID-19) spike antibody [1A9] detects SARS-CoV-2 (COVID-19) spike protein by immunohistochemical analysis of infected human placenta.



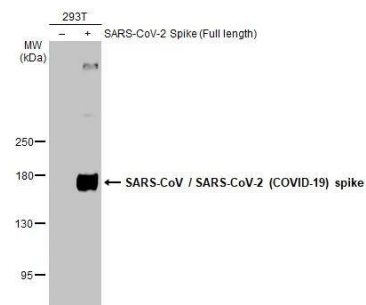
Indirect ELISA analysis was performed by coating the plate with recombinant SARS-CoV-2 (COVID-19) Spike (ECD) Protein, BA.2 / Omicron variant, His tag were used to detect the bound primary antibodies.



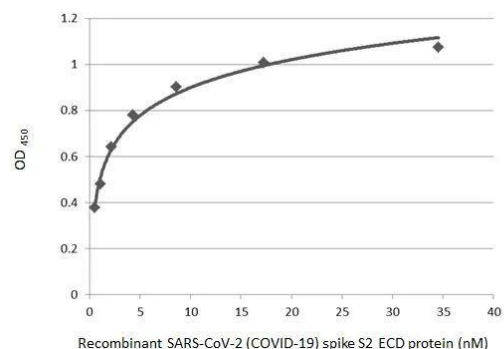
Indirect ELISA analysis performed by coating plate with recombinant full-length SARS-CoV-2 (501.V1) spike protein, SARS-CoV-2 (501.V2) spike protein and SARS-CoV-2 spike protein (4000-62.5 ng/mL). Coated protein was probed with SARS Spike Protein antibody [1A9] (NBP3-48646) (1 ug/mL). Mouse IgG antibody (HRP) was used to detect bound primary antibody.



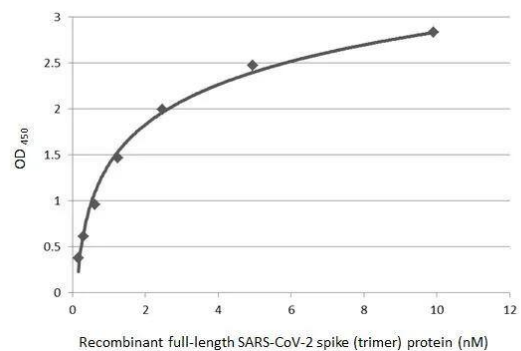
Non-transfected (-) and transfected (+) 293T whole cell extracts (30 ug) were separated by 5% SDS-PAGE, and the membrane was blotted with SARS Spike Protein antibody [1A9] (NBP3-48646) diluted at 1:5000. The HRP-conjugated anti-mouse IgG antibody was used to detect the primary antibody.



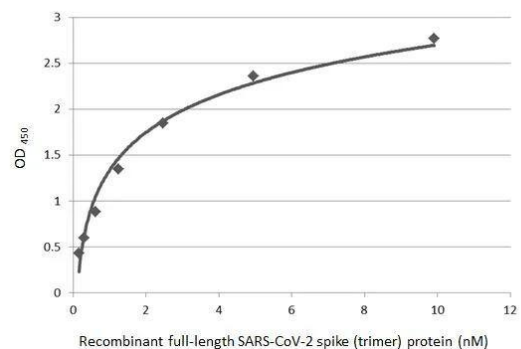
Sandwich ELISA detection of recombinant SARS-CoV-2 (COVID-19) Spike S2 (ECD) protein, human IgG Fc tag



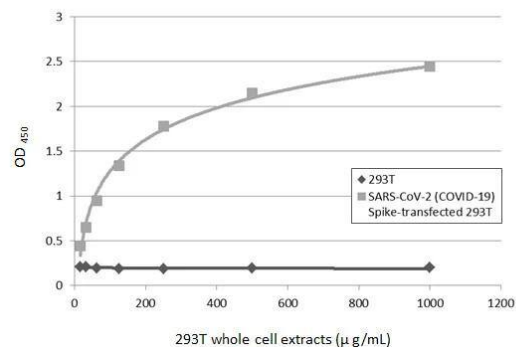
Sandwich ELISA detection of recombinant SARS-CoV-2 spike (trimer) protein using antibodies as below. **Capture:** SARS Spike Protein antibody [1A9] (NBP3-48646) (5 ug/mL) **Detection:** SARS-CoV-2 (COVID-19) Spike S2 antibody [HL1038] (1 ug/mL).



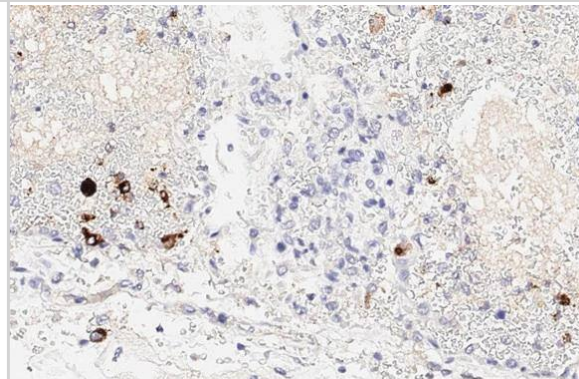
Sandwich ELISA detection of recombinant SARS-CoV-2 spike (trimer) protein using antibodies as below. **Capture:** SARS Spike Protein antibody [1A9] (NBP3-48646) (5 ug/mL) **Detection:** SARS-CoV-2 (COVID-19) Spike RBD antibody [HL1003] (1 ug/mL).



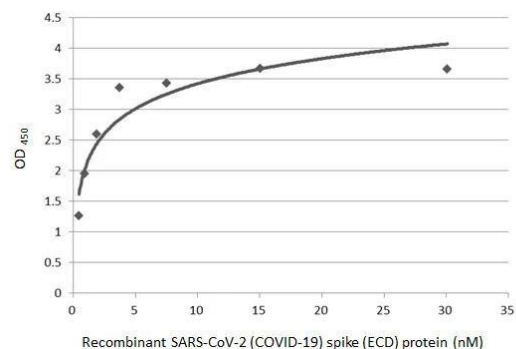
Sandwich ELISA detection of non-transfected and SARS-CoV-2 spike (full length) transfected 293T whole cell extracts using SARS Spike Protein antibody [1A9] (NBP3-48646) as capture antibody at concentration of 5 ug/mL and SARS-CoV-2 (COVID-19) Spike S1 antibody [HL6] was diluted at 1:10000 and used to detect the primary antibody.



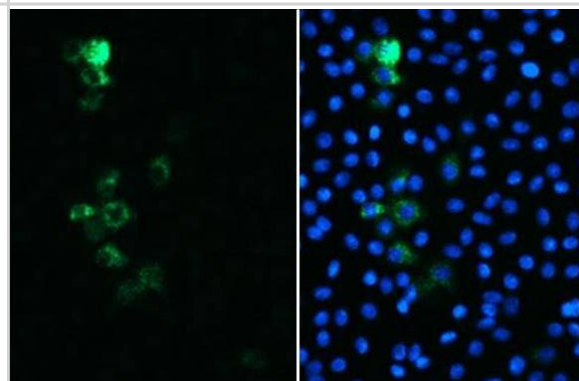
SARS Spike Protein antibody [1A9] (NBP3-48646) detects SARS-CoV-2 (COVID-19) spike protein by immunohistochemical analysis of SARS-CoV-2 infected human lung. The IHC-P was performed by HISTOWIZ.



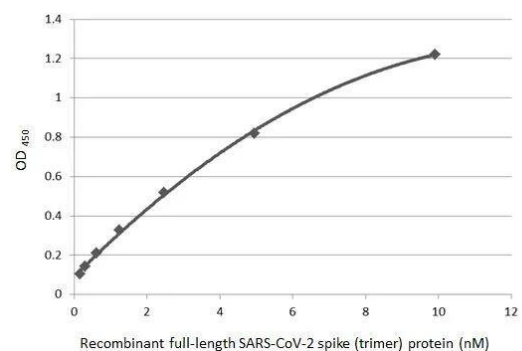
Sandwich ELISA detection of recombinant SARS-CoV-2 (COVID-19) Spike (ECD) protein, His tag (active)



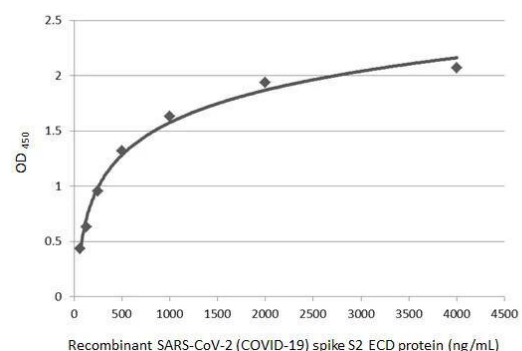
SARS Spike Protein antibody [1A9] detects SARS-CoV-2 by immunofluorescent analysis. Sample: Vero E6 cells were infected with SARS-CoV-2 (MOI of 1) and fixed with chilled methanol/acetone. Green: SARS-CoV-2 infected Vero E6 cells stained by SARS Spike Protein antibody [1A9] (NBP3-48646). Blue: Nuclei were counterstained with DAPI. \*From Zheng Z, et al. bioRxiv(2020). Shown under license agreement



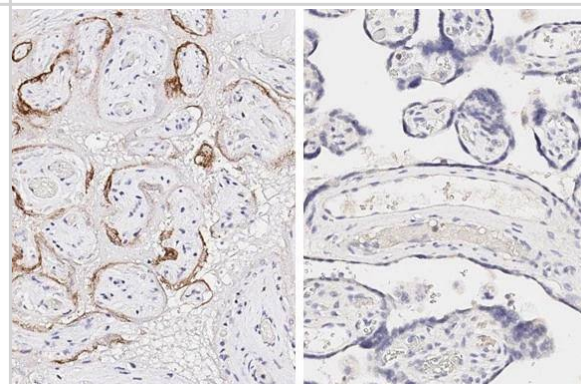
Sandwich ELISA detection of recombinant SARS-CoV-2 spike (trimer) protein using antibodies as below. **Capture:** SARS Spike Protein antibody [1A9] (NBP3-48646) (5 ug/mL) **Detection:** SARS-CoV-2 (COVID-19) Spike S1 antibody [HL263] (1 ug/mL).



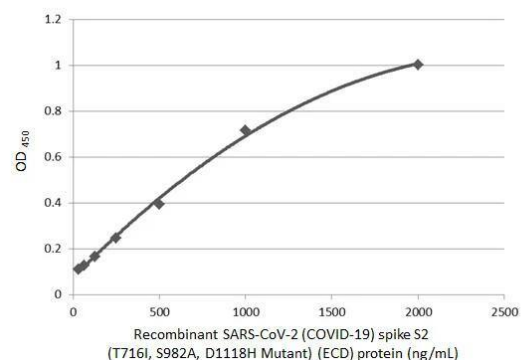
Indirect ELISA analysis was performed by coating plate with 50 uL of recombinant SARS-CoV-2 (COVID-19) spike S2 ECD protein at concentrations ranging from 0.0625 ug/mL to 4 ug/mL. The coated protein is detected with SARS Spike Protein antibody [1A9] (NBP3-48646) at 1 ug/mL. Mouse IgG antibody (HRP) was diluted at 1:10000 and used to detect the primary antibody.



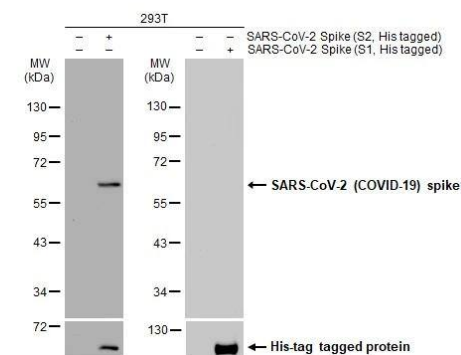
SARS Spike Protein antibody [1A9] (NBP3-48646) detects SARS-CoV-2 (COVID-19) spike protein by immunohistochemical analysis of SARS-CoV-2 infected human placenta (left) and normal human placenta (right). The IHC-P was performed by HISTOWIZ.



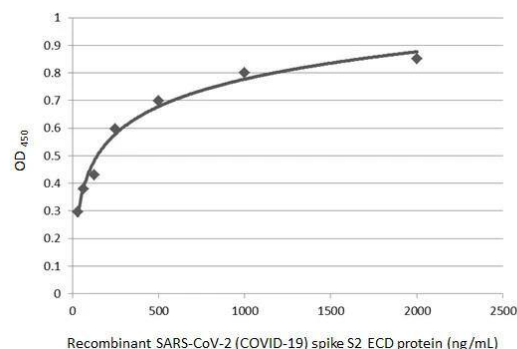
Sandwich ELISA detection of recombinant SARS-CoV-2 (COVID-19) Spike S2 (T716I, S982A, D1118H Mutant) (ECD) protein, His tag was diluted at 1:10000 and used to detect the primary antibody.



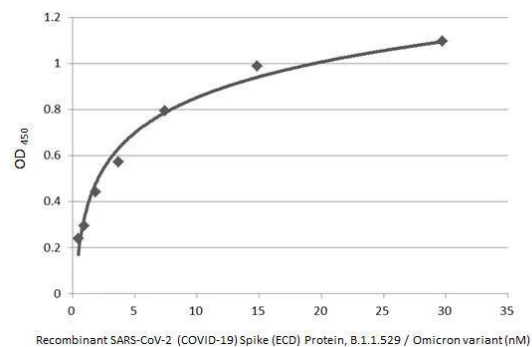
Non-transfected (-) and transfected (+) 293T whole cell extracts (30 ug) were separated by 10% SDS-PAGE, and the membrane was blotted with SARS Spike Protein antibody [1A9] (NBP3-48646) diluted at 1:5000. The HRP-conjugated anti-mouse IgG antibody was used to detect the primary antibody.



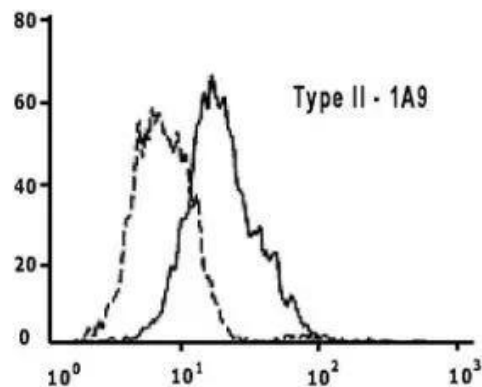
Sandwich ELISA detection of recombinant SARS-CoV-2 (COVID-19) Spike S2 (ECD) protein, human IgG Fc tag as detection antibody.



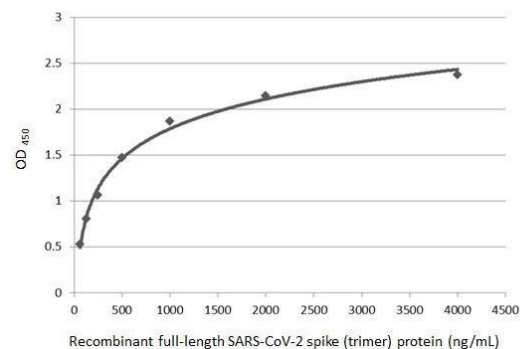
Indirect ELISA analysis performed by coating plate with recombinant SARS-CoV-2 (COVID-19) Spike (ECD) Protein, B.1.1.529 / Omicron variant, His tag was used to detect bound primary antibody.



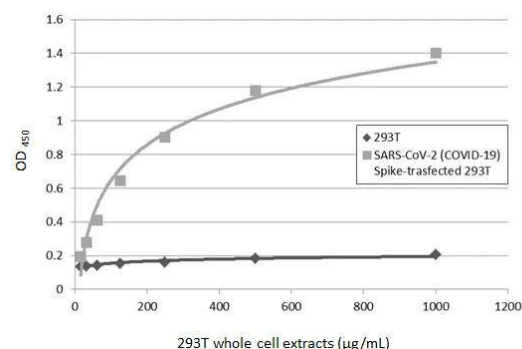
FACS analysis of 293T cells infected with recombinant vaccinia virus carrying the Spike gene using NBP3-48646 SARS Spike Protein antibody [1A9].



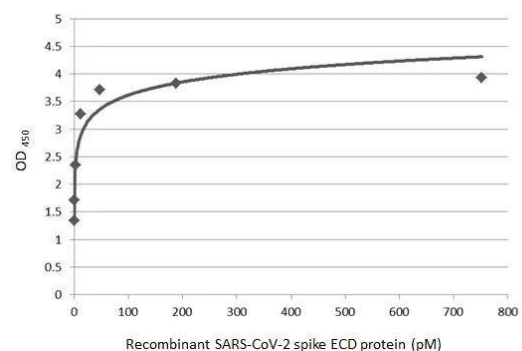
Sandwich ELISA detection of recombinant full-length SARS-CoV-2 spike (trimer) protein using SARS Spike Protein antibody [1A9] (NBP3-48646) as capture antibody at concentration of 5 ug/mL and SARS-CoV-2 (COVID-19) Spike RBD antibody was diluted at 1:10000 and used to detect the primary antibody.



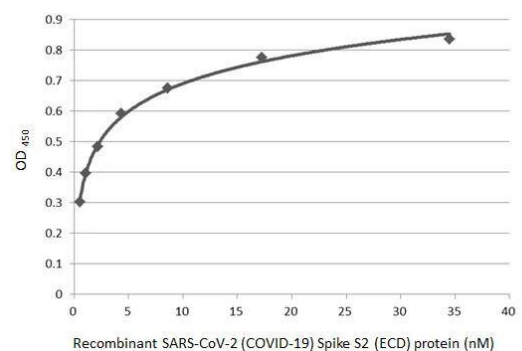
Sandwich ELISA detection of non-transfected and SARS-CoV-2 spike (full length) transfected 293T whole cell extracts using NBP3-48646 as capture antibody at concentration of 5 ug/mL and GTX135356 as detection antibody at concentration of 1 ug/mL. Rabbit IgG antibody (HRP) was diluted at 1:10000 and used to detect the primary antibody.



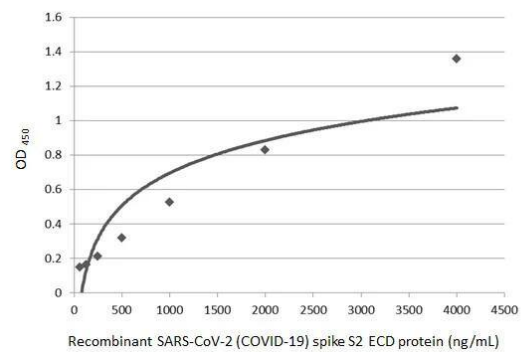
Sandwich ELISA detection of recombinant SARS-CoV-2 (COVID-19) Spike (ECD) protein, His tag (active)



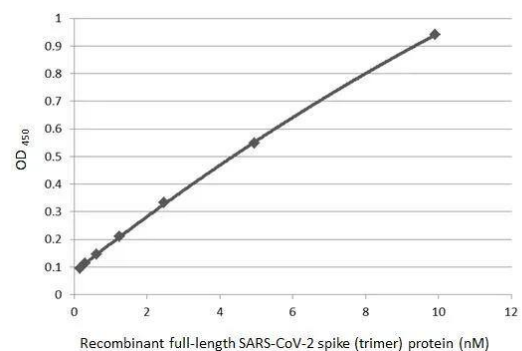
Sandwich ELISA detection of recombinant SARS-CoV-2 (COVID-19) Spike S2 (ECD) protein, human IgG Fc tag



Sandwich ELISA detection of recombinant SARS-CoV-2 (COVID-19) Spike S2 (ECD) protein, mouse IgG Fc tag protein was diluted at 1:10000 and used to detect the primary antibody.



Sandwich ELISA detection of recombinant SARS-CoV-2 spike (trimer) protein using antibodies as below. **Capture:** SARS Spike Protein antibody [1A9] (NBP3-48646) (5 ug/mL) **Detection:** SARS-CoV-2 (COVID-19) Spike S1 antibody [HL13402] (1 ug/mL).





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### **Products Related to NBP3-48646**

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NBP2-33376H	Blue Marker Antibody (6F4-F6) [HRP]
HAF007	Goat anti-Mouse IgG Secondary Antibody [HRP]
NB7539	Goat anti-Mouse IgG (H+L) Secondary Antibody [HRP]
NBP1-97005-0.5mg	Mouse IgG1 Isotype Control (MG1)

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### **Limitations**

This product is for research use only and is not approved for use in humans or in clinical diagnosis. Primary Antibodies are guaranteed for 1 year from date of receipt.

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