

Rabbit anti-Viral COVID 19 Spike Protein Rbd Coronavirus Polyclonal Antibody | anti-COVID-19 antibody

Rabbit anti SARS-CoV-2 Spike Protein Rbd

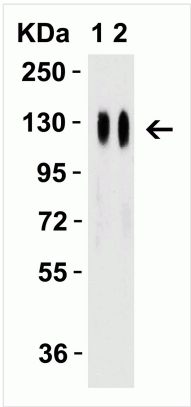
CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA12292	Rabbit	Viral	ELISA, Immunofluorescence, Western Blot

PRODUCT SYNONYMS

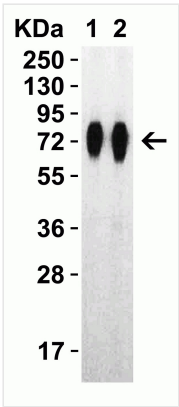
COVID 19 Spike Protein Rbd Coronavirus; Polyclonal Antibody; Rabbit anti SARS-CoV-2 Spike Protein Rbd; 2019 Novel Coronavirus; Coronavirus; CoV; COVID-19 virus; HCoV-2; Human Coronavirus 2019; SARS2; SARS-CoV-2; Severe acute respiratory syndrome coronavirus 2; SARS-CoV-2 Spike Protein Rbd antibody; SARS-CoV-2 SPIKE PROTEIN RBD; anti-COVID-19 antibody

PRODUCT SPECIFICATIONS

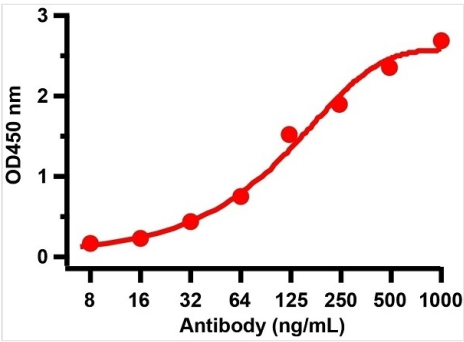
Host	Rabbit
Reactivity	Viral
Clonality	Polyclonal
Isotype	IgG
Purity/Purification	Rabbit polyclonal antibody purified by affinity chromatography
Form/Format	Phosphate buffered saline 0.02% Sodium Azide (NaN ₃) Purified IgG - liquid
Concentration	1.0mg/ml (varies by lot)
Applicable Applications for anti-COVID-19 antibody	ELISA, IF (Immunofluorescence), WB (Western Blot)
Application Notes	ELISA: 1000ng/ml to 8ng/ml IF: 20ug/ml WB: 5ug/ml to 2ug/ml
Immunogen	Peptide corresponding to 19 amino acids near the carboxy terminus of SARS-CoV-2 (COVID-19) Spike glycoprotein RBD. The immunogen is located within the last 50 amino acids of SARS-CoV-2 (COVID-19) Spike protein RBD.
Preparation and Storage	This product is shipped at ambient temperature. It is recommended to aliquot and store at -20 degree C on receipt. When thawed, aliquot the sample as needed. Keep aliquots at 2-8 degree C for short term use (up to 4 weeks) and store the remaining aliquots at -20 degree C. Avoid repeated freezing and thawing as this may denature the antibody. Storage in frost-free freezers is not recommended.



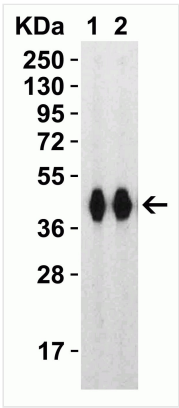
WB (Western Blot)
Western blot analysis of SARS-CoV-2 spike S1 recombinant protein probed with Rabbit anti SARS-CoV-2 spike protein RBD antibody (Lane 1: 2.5ug/ml, Lane 2: 5ug/ml, AAA12292). Arrow points to SARS-CoV-2 spike protein.



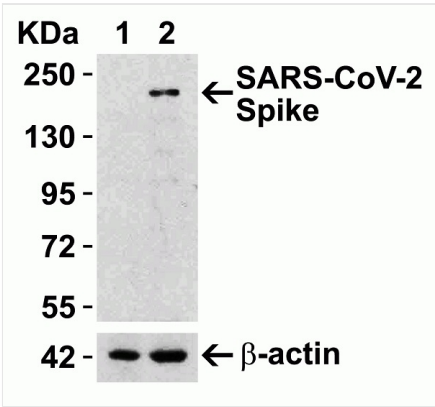
WB (Western Blot)
Western blot analysis of SARS-CoV-2 spike RBD+SD1+SD2 recombinant protein probed with Rabbit anti SARS-CoV-2 spike protein RBD antibody (Lane 1: 1ug/ml, Lane 2: 2ug/ml, AAA12292). Arrow points to SARS-CoV-2 spike protein.



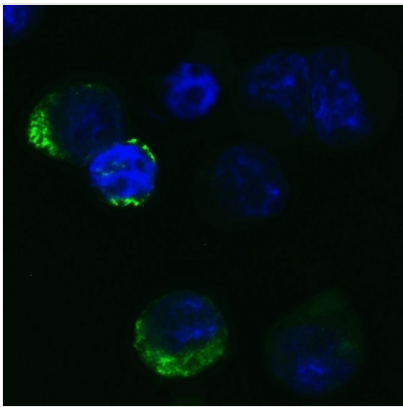
ELISA
Direct ELISA using SARS-CoV-2 spike RBD+SD1 recombinant protein as the coating antigen and Rabbit anti SARS-CoV-2 spike protein RBD antibody (AAA12292) as the capture antibody. Detection range is from 8ng/ml to 1000ng/ml.



WB (Western Blot)
Western blot analysis of SARS-CoV-2 spike RBD+SD1 recombinant protein probed with Rabbit anti SARS-CoV-2 spike protein RBD antibody (Lane 1: 1ug/ml, Lane 2: 2ug/ml, AAA12292). Arrow points to SARS-CoV-2 spike protein.



WB (Western Blot)
Western blot analysis of HEK293 cells transfected with SARS-CoV-2 spike protein and probed with Rabbit anti SARS-CoV-2 spike protein RBD antibody (1/1000, AAA12292). Arrow points to SARS-CoV-2 spike protein.



ICC (Immunocytochemistry)
Immunocytochemistry of HEK293 cells transfected with SARS-CoV-2 spike protein, fixed with PFA and probed using Rabbit anti SARS-CoV-2 spike protein RBD antibody (20mg/ml, AAA12292) (green). Nucleus labeled with DAPI (blue).

ADDITIONAL INFORMATION

Related Product Information for anti-COVID-19 antibody	Rabbit anti SARS-CoV-2 spike protein RBD antibody recognizes spike glycoprotein, also known as S glycoprotein, peplomer protein and E2. Human coronaviruses are pathogens that can cause severe respiratory tract infections. SARS-CoV-2 is a novel human coronavirus characterized in 2020, and causes "coronavirus disease 2019" or "COVID-19" (Xu et al. 2020). The spike glycoproteins of coronaviruses are incorporated into the viral envelope and promote entry into cells (Walls et al. 2020). The spike glycoprotein of SARS-CoV-2 is comprised of two subunits called S1 and S2. The S1 protein binds to a receptor on human cells, and the transmembrane unit S2 helps fuse the viral membrane with a cellular membrane (Hoffmann et al. 2020). Specifically, both SARS-CoV and SARS-CoV-2 spike proteins contain a receptor-binding domain (RBD) that recognize the same receptor, ACE2, on human cells (Shang et al. 2020). This antibody recognizes the RBD of the SARS-CoV-2 spike protein.
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NCBI AND UNIPROT INFORMATION

UniProt Accession #	P0DTC2
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For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

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Online datasheet: <https://stage.aaabiotech.com/polyclonal/covid-19-spike-protein-rbd-coronavirus-antibody-immunofluorescence-western-blot-elisa/12292>