

Rabbit COVID-19 Spike L452R (Delta Variant) Coronavirus Polyclonal Antibody | anti-COVID-19 antibody

SARS-CoV-2 (COVID-19) Spike L452R Antibody (Delta Variant)

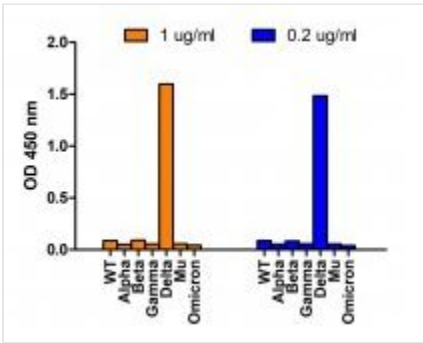
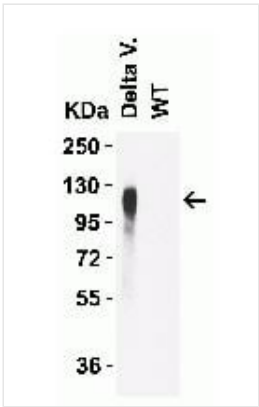
CATALOG # AAA40956	HOST Rabbit	APPLICATIONS Western Blot, ELISA
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PRODUCT SYNONYMS

COVID-19 Spike L452R (Delta Variant) Coronavirus; Polyclonal Antibody; SARS-CoV-2 (COVID-19) Spike L452R Antibody (Delta Variant); 2019 Novel Coronavirus; Coronavirus; CoV; COVID-19 virus; HCoV-2; Human Coronavirus 2019; SARS2; SARS-CoV-2; Severe acute respiratory syndrome coronavirus 2; Spike L452R (Delta Variant); anti-COVID-19 antibody

PRODUCT SPECIFICATIONS

Host	Rabbit
Clonality	Polyclonal
Isotype	IgG
Specificity	It can only detect SARS-CoV-2 Delta Variant (B.1.617.2) Spike S1 protein and does not cross-react with the spike protein of other variants.
Purity/Purification	Anti-SARS-CoV-2 Spike Delta Variant antibody is affinity chromatography purified via peptide column.
Form/Format	Liquid
Concentration	1 mg/mL (varies by lot)
Applicable Applications for anti-COVID-19 antibody	WB (Western Blot), ELISA
Homology	Predicted reactivity based on immunogen sequence: SARS-CoV Spike proteins: (77.8%)
Immunogen	Anti-SARS-CoV-2 Spike L452R (Delta Variant) antibody was raised against a peptide corresponding to 9 amino acids in the receptor binding domain of SARS-CoV-2 Delta variant (B.1.617.2) Spike protein. The immunogen is located within 430-480 amino acids of SARS-CoV-2 Delta variant (B.1.617.2) Spike protein.
Conjugation	Unconjugated
Buffer	SARS-CoV-2 Spike Delta Variant antibody is supplied in PBS containing 0.02% sodium azide.
Preparation and Storage	SARS-CoV-2 Spike Delta Variant antibody can be stored at 4°C for three months and -20°C, stable for up to one year. As with all antibodies care should be taken to avoid repeated freeze thaw cycles. Antibodies should not be exposed to prolonged high temperatures.



Application Data
Figure 1 SARS-Cov-2 Spike L452R (Delta Variant) Antibodies Specifically Detect Delta Variant Spike S1 Protein in an ELISA Coating Antigen: SARS-CoV-2 spike S1 proteins WT, alpha variant (B.1.1.7), beta variant (B.1.351), gamma variant (P.1), delta variant (B.1.617.2), mu variant (B.1.621), and omicron variant (B.1.1.529), 1 μg/mL, incubated at 4 ˚C overnight. Detection Antibodies: SARS-CoV-2 Delta Variant Spike antibody, dilution: 200 and 1000 ng/mL, incubated at RT for 1 hr. Secondary Antibodies: Goat anti-rabbit HRP at 1:20,000, incubated at RT for 1 hr.

WB (Western Blot)
Figure 2 WB Validation of of Delta Variant Spike Antibodies with SARS-CoV-2 Delta Variant Spike S1 Protein Loading: 50 ng of SARS-CoV-2 spike S1 proteins, including WT and Delta variant (B.1.617.2). Detection Antibodies: SARS-CoV-2 Delta Variant Spike antibody, 1 μg/mL, incubated at RT for 1 hr. Secondary Antibodies: Goat anti-rabbit HRP at 1:20,000, incubated at RT for 1 hr. SARS-CoV-2 Delta Variant Spike antibody specifically detects Delta variant spike S1 protein, but not WT spike S1 protein.

ADDITIONAL INFORMATION

Related Product Information for anti-COVID-19 antibody	SARS-CoV-2 delta variant, a variant of concern (VOC), known as B.1.617.2, was detected in India in October of 2020. However, it rapidly spread all over of the world and now it is the dominant variant in the world, which account for more than 99% of the cases. This variant carries at least 13 mutations in spike protein across the sub lineages, including L452R, D614G, P681R and K417N, which can increase the affinity to the human ACE2 receptor. Enhanced transmission of the Delta variant was observed globally, which is at least 2.5 times more contagious as the other variants. The Delta variant affects the effectiveness of COVID19 vaccine and is resistant to neutralization to some extent.
Product Categories/Family for anti-COVID-19 antibody	Infectious Disease

NCBI AND UNIPROT INFORMATION

NCBI GI #	1791269090
NCBI GeneID	43740568
UniProt Accession #	Q9BYF1

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-l452r-delta-variant-coronavirus-antibody-western-blot-elisa/40956>