

COVID 19 Delta Variant Spike S1 (His-Avi Tag) Coronavirus Recombinant Protein | COVID-19 recombinant protein

SARS-CoV-2 (COVID-19) Delta Variant Spike S1 (His-Avi Tag) Recombinant Protein

CATALOG # AAA11040	HOST HEK293 Cells	APPLICATIONS ELISA, Western Blot, SDS-Page
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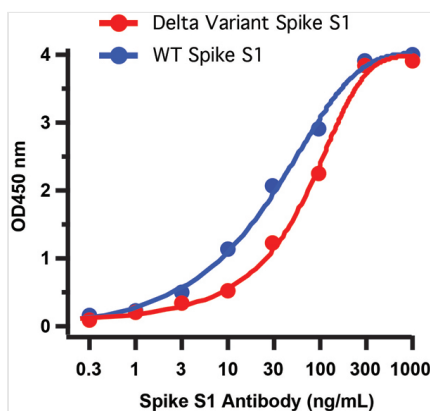
PRODUCT SYNONYMS

COVID 19 Delta Variant Spike S1 (His-Avi Tag) Coronavirus; SARS-CoV-2 (COVID-19) Delta Variant Spike S1 (His-Avi Tag) Recombinant Protein; 2019 Novel Coronavirus; Coronavirus; CoV; COVID-19 virus; HCoV-2; Human Coronavirus 2019; SARS2; SARS-CoV-2; Severe acute respiratory syndrome coronavirus 2; S protein RBD; Spike glycoprotein Receptor-binding domain; S glycoprotein RBD; Spike protein RBD; Delta variant spike RBD; COVID-19 recombinant protein

PRODUCT SPECIFICATIONS

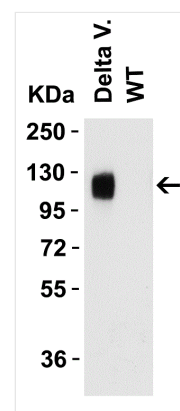
Host	HEK293 Cells
Purity/Purification	> 90% as determined by Bis-Tris PAGE
Form/Format	Liquid
Sequence	Val16-Arg6 85(T19R,G1 42D,EF156- 157del,R15 8G,L452R,T 478K,D614G ,P681R)-Hi s-Avi
Applicable Applications for COVID-19 recombinant protein	ELISA, WB (Western Blot), SDS-PAGE
Fusion	His-Avi tag at C-terminus
Buffer	PBS (pH 7.4).
Preparation and Storage	Store in working aliquots at -70°C. Avoid freeze/thaw cycles. When working with proteins care should be taken to keep recombinant protein at a cool and stable temperature.

IMAGES



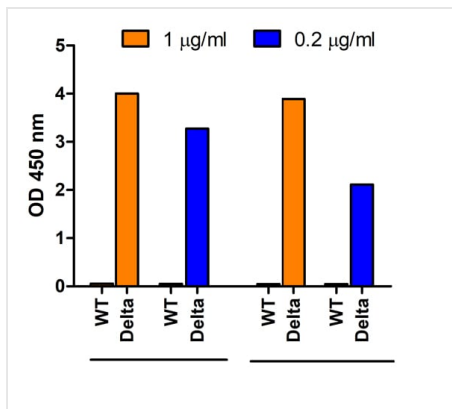
ELISA

Figure 6 ELISA Validation of Delta Variant Spike S1 Protein with SARS-CoV-2 Spike S1 Antibodies Coating Antigen: SARS-CoV-2 spike S1 proteins, including WT and Delta variant (B.1.671.2), 5 μg/mL, incubated at 4 ˚C overnight.Detection Antibodies: SARS-CoV-2 Spike S1 antibody, dilution: 0.3-1000 ng/mL, incubate at RT for 1 hr.Secondary Antibodies: Goat anti-rabbit HRP at 1:20,000, incubate at RT for 1 hr.Antibody 9083 does not distinguish between WT and Delta.



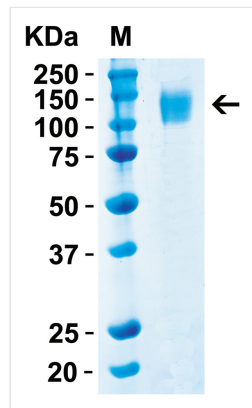
WB (Western Blot)

Figure 5 WB Validation of Delta Variant Spike S1 Protein with SARS-CoV-2 Delta Variant Spike Antibodies Loading: 20 ng of SARS-CoV-2 spike S1 proteins, including WT and Delta variant (B.1.671.2).Detection Antibodies: SARS-CoV-2 Delta variant spike antibody, 1 μg/mL, incubate at RT for 1 hr.Secondary Antibodies: Goat anti-rabbit HRP at 1:20,000, incubate at RT for 1 hr.SARS-CoV-2 Delta Variant S1 protein (95-127), but not WT spike S1 protein (10-300), was specifically detected by Delta Variant spike antibody.



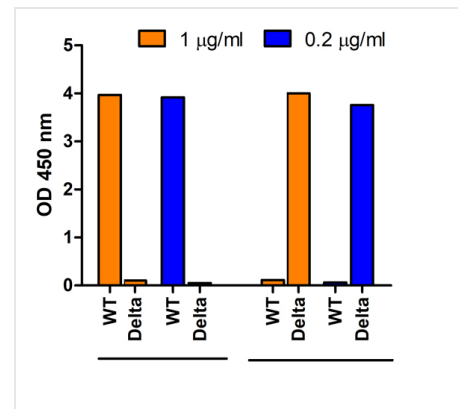
ELISA

Figure 4 ELISA Validation of Delta Variant Spike S1 Protein with SARS-CoV-2 Delta Variant Spike Antibodies Coating Antigen: SARS-CoV-2 spike S1 proteins, including WT and Delta variant (B.1.671.2), 5 µg/mL, incubated at 4 °C overnight. Detection Antibodies: SARS-CoV-2 Delta variant spike P681R antibodies, and dilution: 200 and 1000 ng/mL, incubated at RT for 1 hr. Secondary Antibodies: Goat anti-mouse HRP at 1:5,000, incubate at RT for 1 hr. SARS-CoV-2 Delta Variant Spike S1 protein (95-127), but not WT spike S1 protein (10-300), was specifically detected by Delta Variant spike antibodies.



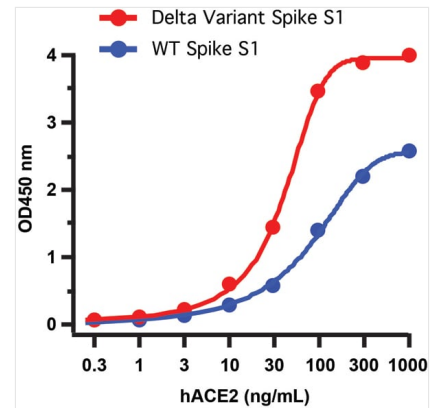
SDS-PAGE

Figure 2 SDS-PAGE Validation of SARS-CoV-2 (COVID-19) Delta Variant Spike S1 Recombinant Protein Loading: 1 µg SARS-CoV-2 (COVID-19) Delta variant Spike S1 recombinant protein, 95-127. Observed: 120 kDa



ELISA

Figure 3 ELISA Validation of Delta Variant Spike S1 Protein with SARS-CoV-2 Delta Variant Spike Antibodies Coating Antigen: SARS-CoV-2 spike S1 proteins, including WT and Delta variant (B.1.671.2), 5 µg/mL, incubated at 4 °C overnight. Detection Antibodies: SARS-CoV-2 Delta variant spike 156-157EFdel antibody, and spike 156-157EF antibody, 9685, dilution: 200 and 1000 ng/mL, incubated at RT for 1 hr. Secondary Antibodies: Goat anti-rabbit HRP at 1:20,000, incubate at RT for 1 hr. SARS-CoV-2 Delta Variant Spike S1 protein (95-127), but not WT spike S1 protein (10-300), was specifically detected by Delta Variant spike antibody (9689), while the corresponding WT antibody detected spike S1 protein of WT, but not delta variant.



ELISA

Figure 1 ELISA Binding Assay of ACE2 and SARS-CoV-2 (COVID-19) Delta Variant Spike S1 Recombinant Protein Coating Antigen: SARS-CoV-2 Delta variant (B.1.671.2) spike S1 protein, 1 µg/mL, incubated at 4 °C overnight. Detection Antibodies: ACE2 recombinant protein, 10-120, dilution: 0.3- 1000 ng/mL, incubated at RT for 1 hr. Secondary Antibodies: Goat anti-human HRP at 1:10,000, incubate at RT for 1 hr.

ADDITIONAL INFORMATION

Related Product Information for COVID-19 recombinant protein	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 COVID-19 recombinant protein	Infectious Disease; COVID-19
References	Zhang et al. JAMA 2021, 325 (13): 1324-26.

NCBI AND UNIPROT INFORMATION

NCBI GI #	43740578
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UniProt Accession #	P0DTC1
Molecular Weight	35 kD

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/covid-19-delta-variant-spike-s1-his-avi-tag-coronavirus-recombinant-protein-hek293-cells-elisa-wb-western-blot-sds-page/11040>