

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

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

CATALOG # AAA11039	HOST HEK293 Cells	APPLICATIONS ELISA, Western Blot, SDS-Page
------------------------------	-----------------------------	--

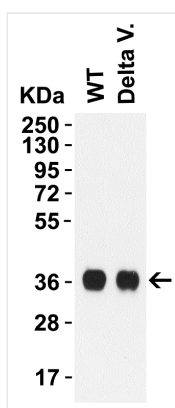
PRODUCT SYNONYMS

COVID 19 Delta Variant Spike RBD (His-Avi Tag) Coronavirus; SARS-CoV-2 (COVID-19) Delta Variant Spike RBD (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

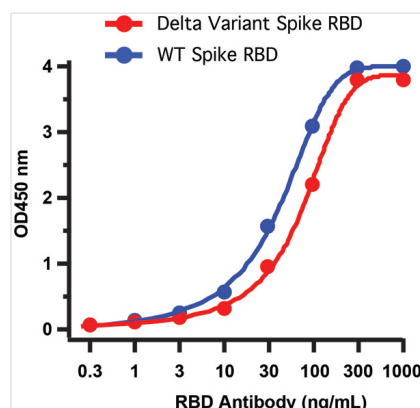
Host	HEK293 Cells
Purity/Purification	> 95% as determined by Bis-Tris PAGE
Form/Format	Liquid
Sequence	Arg319-Phe 541(T478K, L452R)-His -Avi
Applicable Applications for COVID-19 recombinant protein	ELISA, WB (Western Blot), SDS-PAGE
Fusion	His-Avi tag at C-terminus
Buffer	PBS (pH 7.4).
Dry Ice Note	The product may be shipped with dry ice, and an additional fee may be added to your shipping cost.
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



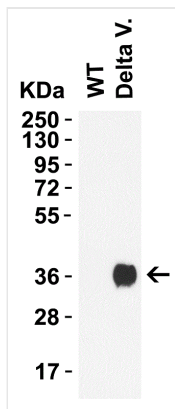
WB (Western Blot)

Figure 6 WB Validation of Delta Variant Spike RBD Protein with SARS-CoV-2 Spike RBD Antibodies Loading: 20 ng of SARS-CoV-2 spike RBD proteins, including WT and Delta variant (B.1.671.2). Detection Antibodies: SARS-CoV-2 Spike RBD antibody, 1 & #956/g/mL, incubate at RT for 1 hr. Secondary Antibodies: Goat anti-rabbit HRP at 1:20,000, incubate at RT for 1 hr.



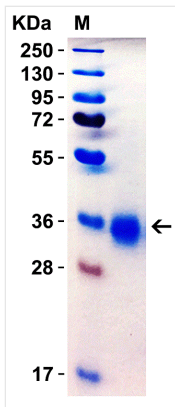
ELISA

Figure 5 ELISA Validation of Delta Variant Spike RBD Protein with SARS-CoV-2 Spike RBD Antibodies Coating Antigen: SARS-CoV-2 spike RBD proteins, including WT and Delta variant (B.1.671.2), 5 & #956/g/mL, incubated at 4 & #730;C overnight. Detection Antibodies: SARS-CoV-2 Spike RBD antibody, 9087, 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 9087 does not distinguish between WT and Delta.



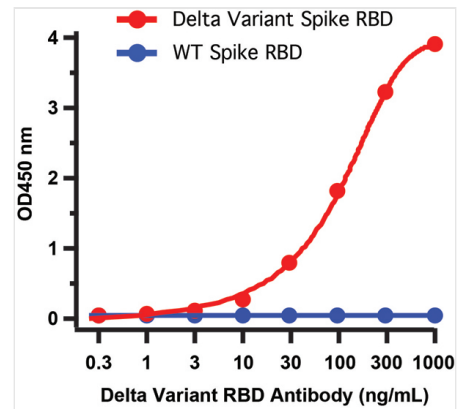
WB (Western Blot)

Figure 4 WB Validation of Delta Variant Spike RBD Protein with SARS-CoV-2 Delta Variant Spike L452R Antibodies Loading: 20 ng of SARS-CoV-2 spike RBD proteins, including WT and Delta variant (B.1.671.2). Detection Antibodies: SARS-CoV-2 Delta variant spike L452R antibody, 9463, 1 & #956;g/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 RBD protein (95-126), but not WT spike RBD protein (10-303), was specifically detected by Delta Variant spike L452R antibody (9463).



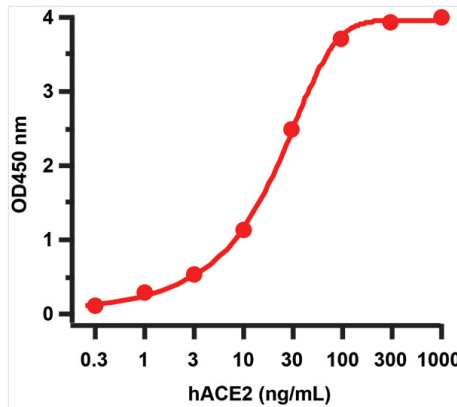
SDS-PAGE

Figure 2 SDS-PAGE Validation of SARS-CoV-2 (COVID-19) Delta Variant Spike RBD Recombinant Protein Loading: 1 & #956;g SARS-CoV-2 (COVID-19) Delta variant Spike RBD recombinant protein, 95-126. Observed: 35kD



ELISA

Figure 3 ELISA Validation of Delta Variant Spike RBD Protein with SARS-CoV-2 Delta Variant Spike L452R Antibodies Coating Antigen: SARS-CoV-2 spike RBD proteins, including WT and Delta variant (B.1.671.2), 5 & #956;g/mL, incubated at 4 & #730;C overnight. Detection Antibodies: SARS-CoV-2 Delta variant spike L452R antibody, dilution: 0.3-1000 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 RBD protein (95-126), but not WT spike RBD protein, was specifically detected by Delta Variant spike L452R antibody (9463).



ELISA

Figure 1 ELISA Binding Assay of ACE2 and SARS-CoV-2 (COVID-19) Delta Variant Spike RBD Recombinant Protein Coating Antigen: SARS-CoV-2 Delta variant (B.1.671.2) spike RBD protein, 1 & #956;g/mL, incubated at 4 & #730;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
UniProt Accession #	P0DTC1

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.

AAA Biotech | Tel: +1 (619) 604-9440 | Fax: +1 (619) 604-9441 | contact@aaabiotech.com

Online datasheet: <https://stage.aaabiotech.com/covid-19-delta-variant-spike-rbd-his-avi-tag-coronavirus-recombinant-protein-hek293-cells-elisa-wb-western-blot-sds-page/11039>