

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

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

CATALOG # AAA40962	HOST HEK293 Cells	APPLICATIONS SDS-Page, Western Blot, ELISA
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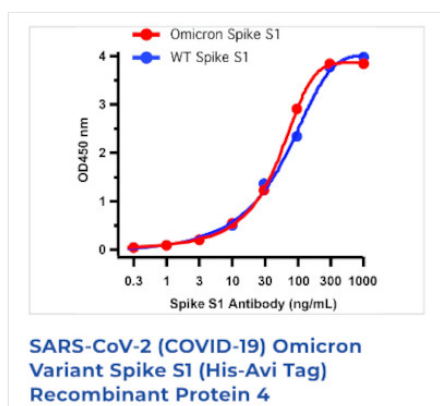
PRODUCT SYNONYMS

COVID 19 Omicron Variant Spike S1 (His-Avi Tag) Coronavirus; SARS-CoV-2 (COVID-19) Omicron 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

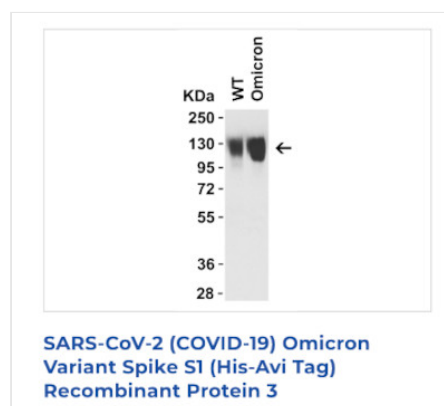
Host	HEK293 Cells
Purity/Purification	> 90% as determined by Bis-Tris PAGE
Form/Format	Liquid
Sequence	Val16-Arg6 85(A67V,HV 69-70del,T 95I,G142D, VYY143-145 del,N211de I,L212I,in s214EPE,G3 39D,S371L, S373P,S375 F,K417N,N4 40K,G446S, S477N,T478 K,E484A,Q4 93R,G496S, Q498R,N501 Y,Y505H,T5 47K,D614G, H655Y,N679 K,P681H)-H is-Avi
Applicable Applications for COVID-19 recombinant protein	SDS-PAGE, WB (Western Blot), ELISA
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



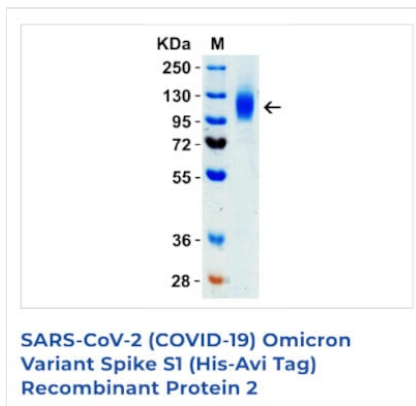
ELISA

Figure 4 ELISA Validation of Omicron Variant Spike S1 Protein with SARS-CoV-2 Spike S1 Antibodies Coating Antigen: SARS-CoV-2 spike S1 proteins, including WT and Omicron variant (B.1.1.529), 5 ug/mL, incubated at 4°C overnight. Detection Antibodies: SARS-CoV-2 Spike S1 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. Antibody does not distinguish between WT and Omicron.



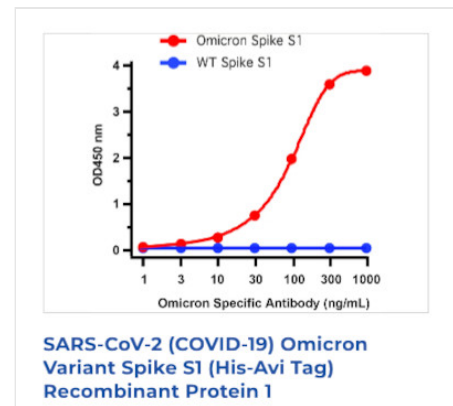
WB (Western Blot)

Figure 3 WB Validation of Omicron Variant Spike S1 Protein with SARS-CoV-2 Spike Antibodies Loading: 30 ng of SARS-CoV-2 spike S1 proteins, including WT and Omicron variant (B.1.1.529). Detection Antibodies: SARS-CoV-2 spike S1 antibody, 1 ug/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 Omicron Variant S1 protein (AAA40962) and WT spike S1 protein (please inquire), were both detected by spike S1 antibody.



SDS-PAGE

Figure 2 SDS-PAGE Validation of SARS-CoV-2 (COVID-19) Omicron Variant Spike S1 Recombinant Protein Loading: 2 g SARS-CoV-2 (COVID-19) Omicron variant Spike S1 recombinant protein, AAA40962. Observed: 120kD



ELISA

Figure 1 ELISA Validation of Omicron Variant Spike S1 Protein with SARS-CoV-2 Omicron Variant Spike Antibodies Coating Antigen: SARS-CoV-2 spike S1 proteins, including WT and Omicron variant (B.1.1.529), 5 ug/mL, incubated at 4°C overnight. Detection Antibodies: SARS-CoV-2 Omicron Spike antibody, PM-9375, dilution: 1-1000 ng/mL, incubated at RT for 1 hr. Secondary Antibodies: Goat anti-mouse HRP at 1:5,000, incubated at RT for 1 hr. SARS-CoV-2 Omicron Variant S1 protein (AAA40962), but not WT spike S1 protein (please inquire), was specifically detected by Omicron Variant spike antibody.

ADDITIONAL INFORMATION

Related Product Information for COVID-19 recombinant protein	SARS-CoV-2 Omicron variant, a variant of concern (VOC), known as B.1.1.529, was detected in South Africa at the end of November in 2021. However, it rapidly spread all over the world and now it is the dominant variant in the world, which account for more than 90% of the new cases. Omicron variant spike protein carries around 30 amino acid changes, including mutations, deletions and insertions, in which the receptor binding domain (RBD) protein contains 15 mutations. Enhanced transmission of the Omicron variant was observed globally, which is at least 70 times more contagious than the other variants. The Omicron variant affects the effectiveness of COVID-19 vaccine and is resistant to neutralization (monoclonal antibody treatments) to a large extent.
Product Categories/Family for COVID-19 recombinant protein	Infectious Disease ; COVID-19
References	Gowrisankar et al. European Physical Journal Plus, 2022, 137(1), 100.

NCBI AND UNIPROT INFORMATION

NCBI GI #	43740578
UniProt Accession #	P0DTC1
Molecular Weight	120 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-omicron-variant-spike-s1-his-avi-tag-coronavirus-recombinant-protein-hek293-cells-sds-page-wb-western-blot-elisa/40962>