COVID 19 Spike, S1 RBD Coronavirus Recombinant Protein | COVID-19 recombinant protein

Recombinant SARS-CoV-2 Spike protein, S1 (RBD aa319-589)

CATALOG #	HOST
AAA60225	**293 cells**

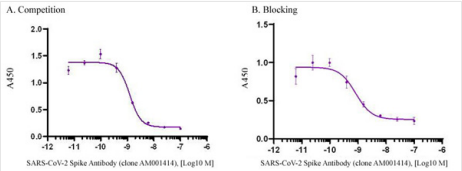
PRODUCT SYNONYMS

COVID 19 Spike; S1 RBD Coronavirus; Recombinant SARS-CoV-2 Spike protein; S1 (RBD aa319-589); 2019 Novel Coronavirus; Coronavirus; CoV; COVID-19 virus; HCoV-2; Human Coronavirus 2019; SARS2; SARS-CoV-2; Severe acute respiratory syndrome coronavirus 2; Spike; S1 RBD; COVID-19 recombinant protein

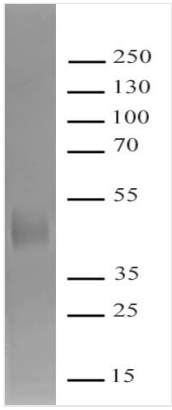
PRODUCT SPECIFICATIONS

Host	293 cells
Purity/Purification	The recombinant protein is >90% pure by SDS-PAGE.
Form/Format	Recombinant SARS-CoV-2 Spike protein is supplied in 25mM Tris-HCl, pH8.0, 270mM NaCl, and 10% glycerol.
Protein Species	Virus
Tag	His-Tag
Notes	This product was manufactured as described in Protein Details and has been validated for use in ELISA. All available data for the protein is shown.
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	Recombinant proteins in solution are temperature sensitive and must be stored at -80 degree C to prevent degradation. Avoid repeated freeze/thaw cycles and keep on ice when not in storage. Shipping Temp: Dry Ice

IMAGES



Application Data
SARS-CoV-2 Spike protein, S1 RBD Competition and Blocking Activity Assay A) SARS-CoV-2 Spike Antibody (clone AM001414) competes with ACE2 receptor for RBD binding. SARS-CoV-2 Spike Antibody (clone AM001414) was serially diluted in the presence of 100 ng/mL biotinylated ACE2 receptor, then added to wells coated with 1 ug/mL RBD, aa 319-589 for 30 min. Streptavidin-HRP was then added to detect bound ACE2 receptor. B) SARS-CoV-2 Spike Antibody (clone AM001414) blocks ACE2 receptor from binding to RBD. Serial dilutions of SARS-CoV-2 Spike Antibody (clone AM001414) was added to wells coated with 1 ug/mL RBD, aa 319-589. 100 ng/mL biotinylated ACE2 receptor was then added for 30 min, followed by Streptavidin-HRP to detect bound ACE2 receptor.



SDS-PAGE
Recombinant SARS-CoV-2 Spike protein, S1 (aa319-589) protein gel. 1 ug of SARS-CoV-2 Spike protein was run on a 4-12% SDS-PAGE gel, stained with Coomassie blue. MW: 40 kDa Purity: >90%

ADDITIONAL INFORMATION

Related Product Information for COVID-19 recombinant protein	Short Description: Recombinant SARS-CoV-2 Spike protein was expressed in 293 cells and contains a C-terminal 6XHis-Tag with an observed molecular weight of 45 kDa. The recombinant protein is >90% pure by SDS-PAGE. This protein has been validated for use in ELISA. Background: COVID-19, which is short for coronavirus disease 2019, is the official name of the respiratory disease caused by infection with the novel coronavirus SARS-CoV-2. The virus that causes COVID-19 was named SARS-CoV-2 because it is a coronavirus genetically similar to, yet distinct from, the virus that caused the severe acute respiratory syndrome (SARS) outbreak in 2003. Studying the details of how this virus replicates and causes the disease will allow scientists and physicians to more rapidly develop fast and accurate methods of detection as well as to deploy therapeutic and vaccine strategies.
Product Categories/Family for COVID-19 recombinant protein	Recombinant Proteins

NCBI AND UNIPROT INFORMATION

Molecular Weight	Molecular weight of 45kDa

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://www.aaabiotech.com/covid-19-spike-s1-rbd-coronavirus-recombinant-protein/60225