

COVID 19 Spike S1 RBD-ACE2 Coronavirus ELISA Kit | COVID-19 elisa kit

SARS-CoV-2 S1 RBD-ACE2 Binding Assay Kit

CATALOG #
AAA60559

PRODUCT SYNONYMS

COVID 19 Spike S1 RBD-ACE2 Coronavirus; SARS-CoV-2 S1 RBD-ACE2 Binding Assay Kit; 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 IgA; S1RBD-ACE2; Receptor Binding Domain; COVID-19 elisa kit

PRODUCT SPECIFICATIONS

Samples	Plasma/serum, vaccine development, screening drugs and antibodies against covid-19
Assay Type	Competitive
Intra-assay Precision	Three different known levels of positive control were spiked into sample buffer as test samples. All samples were tested on the same plate to evaluate intra-assay precision of the kit. The Intra-assay precision of this kit is less than 8%.
Inter-assay Precision	Three different known levels of control were spiked into sample buffer as test samples. All samples were tested in 3 separate assays to evaluate intra-assay precision of the kit. Inter-assay precision of this kit is less than 5%.
Preparation and Storage	The kit should be stored at 2-8 degree C, and all reagents should be equilibrated to room temperature before use. Immediately after use remaining reagents should be returned to cold storage (2- 8 degree C). Expiry of the kit and reagents is stand on labels. Once opened, the strips may be stored at 2-8 degree C for up to one month.

ADDITIONAL INFORMATION

Related Product Information for COVID-19 elisa kit	Intended Uses: The SARS-COV2 S1RBD-ACE2 Binding Assay is designed to measure the interaction between the receptor binding domain of the viral spike glycoprotein (S1RBD) with the cell surface receptor ACE2. The assay can detect the neutralizing antibodies in human plasma or serum which inhibit the S1RBD-ACE2 interaction, and can also be used for screening the inhibitors and potential drugs and vaccine development. Principle of the Assay: The SARS-COV2 S1RBD-ACE2 Binding Assay is competitive ELISA assay, which can mimic the virus neutralization process. 96-well plates are coated with SARS-CoV-2 S1RBD protein that captures neutralization antibodies or compounds which bind to SARS-CoV-2 S1RBD protein in the sample. After washing away unbound materials, captured neutralization antibodies or compounds can block the binding between horseradish peroxidase (HRP) conjugated recombinant human ACE2. After washing step, the chromogenic substrate 3,3',5,5'-tetramethylbenzidine (TMB) is added. Color reaction is stopped by 2M H2SO4. The inhibitory efficiency of neutralization antibodies or compounds against SARS-CoV-2 S1RBD captured inside the wells is inversely proportional to the color density generated in the coupled oxidation-reduction reaction. Background/Introduction: SARS-CoV-2 is an enveloped virus with a positive-sense RNA genome and a nucleocapsid of helical symmetry. The SARS-CoV-2 entry into host cells is mediated by the transmembrane spike (S) glycoprotein, which contains a receptor binding domain (RBD). S1RBD is responsible for binding with angiotensin converting enzyme-2 (ACE2), leading to endocytosis into the host cells and viral replication.
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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-elisa-kits/covid-19-spike-s1-rbd-ace2-coronavirus/60559>