

COVID 19 high sensitivity Spike S1 IgG Coronavirus ELISA Kit | COVID-19 elisa kit

High-sensitive SARS-CoV-2 S1 IgG ELISA Kit

CATALOG #
AAA13615

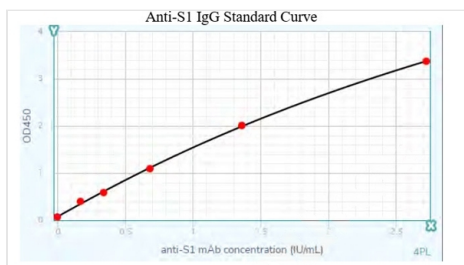
PRODUCT SYNONYMS

COVID 19 high sensitivity Spike S1 IgG Coronavirus; High-sensitive SARS-CoV-2 S1 IgG ELISA 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 IgG; COVID-19 elisa kit

PRODUCT SPECIFICATIONS

Specificity	We have tested this assay in blood samples of 60 well-characterized COVID-19 patients, and 58 of 60 patients were anti-SARS-CoV-2 S1 IgG positive. 20 blood samples from healthy individuals were tested, and none of them were positive. The sensitivity of this assay is $\geq 96\%$, and the specificity of this assay is $\geq 98\%$.
Samples	Serum, plasma or other specimen
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 5%.
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 7%.

IMAGES



Standard Curve (Sample)

ADDITIONAL INFORMATION

Related Product Information for COVID-19 elisa kit

Background: 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.

Principle of the Assay: 96-well plates are coated with SARS-CoV-2 S1 protein that captures IgG antibodies against SARS- CoV-2 S1 protein in the sample. After washing away unbound materials, captured IgG against SARS-CoV-2 S1 protein is detected by anti-human IgG polyclonal antibodies conjugated with horse radish peroxidase (HRP). After washing step, the chromogenic substrate 3,3',5,5'- tetramethylbenzidine (TMB) is added. Color reaction is stopped by 2M H₂SO₄. The amount of anti- SARS- CoV-2 S1 antibodies captured inside the wells is proportional to the color density generated in the coupled oxidation-reduction reaction. The unknown sample concentration can be interpolated from a standard curve generated by Human anti-S1 monoclonal antibody (mAb).

Intended Uses: SARS-CoV-2 S1 protein IgG ELISA Kit is a highly sensitive and specific immunoassay for the precision detection and quantitative measurement of IgG class antibodies against the spike S1 protein of SARS-CoV-2 virus in human blood samples in vitro.

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-high-sensitivity-spike-s1-igg-coronavirus/13615>