

COVID 19 Nucleocapsid (NP) IgA Coronavirus ELISA Kit | COVID-19 elisa kit

SARS-CoV-2 NP IgA ELISA Kit

CATALOG #
AAA60560

PRODUCT SYNONYMS

COVID 19 Nucleocapsid (NP) IgA Coronavirus; SARS-CoV-2 NP IgA 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; Nucleocapsid; Nucleoprotein (NP); COVID-19 elisa kit

PRODUCT SPECIFICATIONS

Samples	Serum or plasma samples
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 10%.

ADDITIONAL INFORMATION

Related Product Information for COVID-19 elisa kit

Intended Uses: SARS-CoV-2 NP IgA ELISA Kit is a highly sensitive and specific immunoassay developed for qualitative detection of IgA class antibodies against the NP of SARS- CoV-2 in human blood.

Principle of the Assay: 96-well plates are coated with SARS-CoV-2 NP protein that captures antibodies against SARS- CoV-2 NP protein in the sample. After washing away unbound materials, captured IgA against SARS-CoV-2 NP is detected by anti-human IgA monoclonal antibodies conjugated with horse radish peroxidase (HRP), which is specific to human IgA, with no cross-reaction with human IgG or IgM. After washing step, the chromogenic substrate 3,3',5,5'-tetramethylbenzidine (TMB) is added. Color reaction is stopped by 2M H2SO4. The amount of IgA class antibodies against SARS- CoV-2 NP captured inside the wells is 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. Nucleocapsid protein (NP) is the most abundant protein on the helical nucleocapsid of coronaviruses, which plays an important role during host cell entry and virus particle assembly. Anti-NP antibodies have been shown to be the earliest and the most predominant antibodies detectable in patient's blood samples after infection. Immunoglobulin A (IgA) plays a crucial role in the immune function of mucous membranes. In the blood, IgA interacts with Fc receptor to initiate inflammatory responses.

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-nucleocapsid-np-iga-coronavirus/60560>