

General COVID-19 Nucleocapsid (NP) Nucleoprotein Coronavirus ELISA Kit | COVID-19 nucleoprotein elisa kit

Universal COVID-19 nucleoprotein ELISA Kit

CATALOG #
AAA250936

REACTIVITY
General

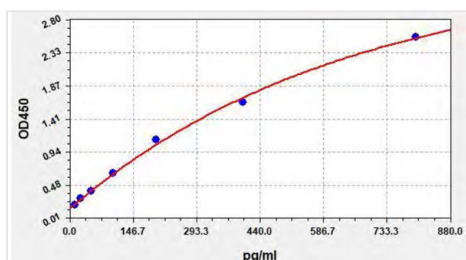
PRODUCT SYNONYMS

COVID-19 Nucleocapsid (NP) Nucleoprotein Coronavirus; Universal COVID-19 nucleoprotein 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 nucleoprotein; Nucleoprotein; COVID-19 nucleoprotein elisa kit

PRODUCT SPECIFICATIONS

Reactivity	General
Specificity	Specifically recognize COVID-19 nucleoprotein, no obvious cross reaction with other analogues
Assay Type	Sandwich
Samples	Serum, plasma, cell culture supernatant and other biological samples
Detection Range	12.5-800pg/ml
Sensitivity	7.5pg/ml
Intra-assay Precision	Intra-assay Precision: samples with low, medium and high concentration are tested 20 times on same plate.
Inter-assay Precision	Inter-assay Precision: samples with low, medium and high concentration are tested 20 times on three different plates.
Preparation and Storage	Store entire kit at 2-8C for short-term. For longer-term, please store the microplate & standard at -20C, while the remaining reagents can be stored at 2-8C

IMAGES



Standard Curve (Sample)

ADDITIONAL INFORMATION

Related Product Information for COVID-19 nucleoprotein elisa kit	Background: 2019-nCoV (2019-NCoV) is a new coronavirus, which belongs to beta-CoV of the reticulariviridae coroniviridae with SARS-CoV. It is an unsegmented single-stranded positive RNA virus with a genome length of about 30,000 nucleotides per group. In terms of gene sequence homology, the 2019-nCoV genome has 80% similarity with SARS, and the 2019-nCoV gene sequence has 40% similarity with MERS-CoV gene sequence. S protein is the most important membrane protein on the surface of coronavirus. Studies have shown that the S protein is closely related to the process of coronavirus invasion into cells. N protein is another important structural protein in coronaviruses. In the coronavirus particle, the N protein is at the core of the virus particle and exists in the form of Genomic RNA. Principle of the Assay: This kit was based on sandwich enzyme-linked immune-sorbent assay technology. Anti COVID-19 nucleoprotein antibody was pre-coated onto the 96-well plate. The biotin conjugated anti COVID-19 nucleoprotein antibody was used as the detection antibody. The standards and pilot samples were added to the wells subsequently. After incubation, unbound conjugates were removed by wash buffer. Then, biotinylated detection antibody was added to bind with COVID-19 nucleoprotein conjugated on coated antibody. After washing off unbound conjugates, HRP-Streptavidin was added. After a third washing, TMB substrates were added to visualize HRP enzymatic reaction. TMB was catalyzed by HRP to produce a blue color product that turned yellow after adding a stop solution. Read the O.D. absorbance at 450nm in a microplate reader. The concentration of COVID-19 nucleoprotein in the sample was calculated by drawing a standard curve. The concentration of the target substance is proportional to the OD450 value.
---	---

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.

AAA Biotech | Tel: +1 (619) 604-9440 | Fax: +1 (619) 604-9441 | contact@aaabiotech.com
Online datasheet: <https://stage.aaabiotech.com/covid-19-nucleoprotein-general-elisa-kits/covid-19-nucleocapsid-np-nucleoprotein-coronavirus/250936>