

SARS-CoV-2 COVID 19 Omicron (B.1.1.529) variant Nucleocapsid Coronavirus ELISA Kit | COVID-19 elisa kit

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CATALOG #
AAA258574

REACTIVITY
SARS-CoV-2

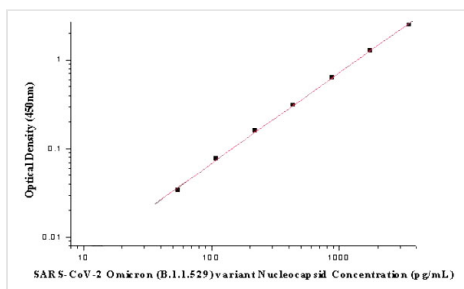
PRODUCT SYNONYMS

COVID 19 Omicron (B.1.1.529) variant Nucleocapsid Coronavirus; SARS-CoV-2 Omicron (B.1.1.529) variant Nucleocapsid 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); Omicron (B.1.1.529) variant Nucleocapsid; COVID-19 elisa kit

PRODUCT SPECIFICATIONS

Reactivity	SARS-CoV-2
Specificity	Recognizes both recombinant and natural SARS-CoV-2 Coronavirus Nucleocapsid
Assay Type	Sandwich
Sensitivity	< 16.53 pg/mL
Intra-assay Precision	Three samples of known concentration were tested twenty times on one plate to assess intra-assay precision.
Inter-assay Precision	Three samples of known concentration were tested in five separate assays to assess inter-assay precision.
Preparation and Storage	Unopened Kit: Store at 2-8 degree C Opened/Reconstituted Reagents: Please refer to CoA

IMAGES



Standard Curve (Sample)

ADDITIONAL INFORMATION

Related Product Information for COVID-19 elisa kit	Background: Coronaviruses are enveloped viruses with a positive-sense RNA genome and with a nucleocapsid of helical symmetry. Coronavirus nucleoproteins localize to the cytoplasm and the nucleolus, a subnuclear structure, in both virus-infected primary cells and in cells transfected with plasmids that express N protein. Coronavirus N protein is required for coronavirus RNA synthesis, and has RNA chaperone activity that may be involved in template switch. Nucleocapsid protein is a most abundant protein of coronavirus. During virion assembly, N protein binds to viral RNA and leads to formation of the helical nucleocapsid. Nucleocapsid protein is a highly immunogenic phosphoprotein also implicated in viral genome replication and in modulating cell signaling pathways. Because of the conservation of N protein sequence and its strong immunogenicity, the N protein of coronavirus is chosen as a test tool. Principle of the Assay: The principle of this ELISA kit is based on the solid phase sandwich enzyme immunoassay technique. A monoclonal antibody specific for SARS-CoV-2 Omicron (B.1.1.529) variant Nucleocapsid has been pre-coated onto well plate strips. Standards and samples are added to the wells and SARS-CoV-2 Omicron (B.1.1.529) variant Nucleocapsid present in the sample is bound by the immobilized antibody. After incubation the wells are washed and a horseradish peroxidase conjugated anti-SARS-CoV-2 Omicron (B.1.1.529) variant Nucleocapsid antibody is added, producing an antibody-antigen-antibody "sandwich complex". Following a wash to remove any unbound antibody a TMB substrate solution is loaded and color develops in proportion to the amount of SARS-CoV-2 Omicron (B.1.1.529) variant Nucleocapsid bound. The reaction is stopped by the addition of a stop solution and the intensity of the color can be measured at 450 nm (See schematics below). Intended Uses: The kit has been verified by high purity SARS-CoV-2 Omicron (B.1.1.529) variant Nucleocapsid Protein (Cat#MBS8123642).
References	1. Van Boheemen S, et al. (2012), MBio. 3(6):e00473-12. Bisht H. et al., 2004, Proc Natl Acad Sci. 101 (17): 6641-6. Li W. et al., 2005, Science. 309 (5742): 1864-8.

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-omicron-b-1-1-529-variant-nucleocapsid-coronavirus/258574>