

COVID 19 Nucleocapsid Coronavirus Detection Kit | COVID-19 detection kit

SARS-CoV-2 (COVID-19) Nucleocapsid Matched Pair

CATALOG # AAA40941	REACTIVITY Virus	APPLICATIONS ELISA
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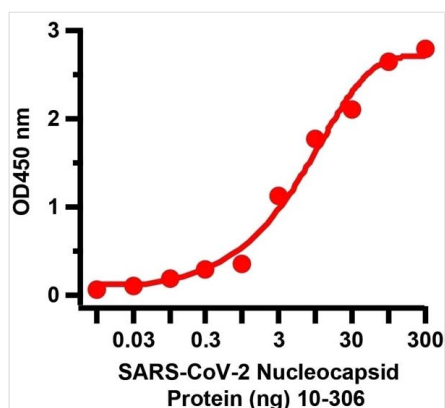
PRODUCT SYNONYMS

COVID 19 Nucleocapsid Coronavirus; SARS-CoV-2 (COVID-19) Nucleocapsid Matched Pair; 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 detection kit

PRODUCT SPECIFICATIONS

Reactivity	Virus
Form/Format	Liquid
Applicable Applications for COVID-19 detection kit	ELISA
Preparation and Storage	Store at -20 degree C, stable for up to one year.

IMAGES



ELISA

Antibodies: SARS-CoV-2 (COVID-19) Nucleocapsid Antibodies, 35-720 and 9103. A sandwich ELISA was performed using SARS-CoV-2 Nucleocapsid antibody (35-720, 5ug/ml) as capture antibody, the Nucleocapsid recombinant protein as the binding protein (10-306), and the anti-SARS-CoV-2 Nucleocapsid antibody (9103, 1ug/ml) as the detection antibody. Secondary: Goat anti-rabbit IgG HRP conjugate at 1:20000 dilution. Detection range is from 0.03 ng to 300 ng. EC50 = 6.9 ng

ADDITIONAL INFORMATION

Related Product Information for COVID-19 detection kit	Coronavirus disease 2019 (COVID-19), formerly known as 2019-nCoV acute respiratory disease, is an infectious disease caused by SARS-CoV-2, a virus closely related to the SARS virus. The disease is the cause of the 2019-20 coronavirus outbreak (1). SARS-CoV-2 is the seventh member of the enveloped, positive-stranded RNA viruses that are able to infect humans. The SARS-CoV-2 genome, like other coronaviruses, encodes for multiple structural and nonstructural proteins. The structural proteins include spike protein (S), envelope protein (E), membrane glycoprotein (M), nucleocapsid phosphoprotein (N), and the nonstructural proteins include open reading frame 1ab (ORF1ab), ORF3a, ORF6, ORF7a, ORF8, and ORF10 (2). Nucleocapsid (N) protein is the most abundant protein of coronavirus. It is also one of the major structural proteins and is involved in the transcription and replication of viral RNA, packaging of the encapsidated genome into virions (3), and interference with cell cycle processes of host cells (4). Moreover, in many coronaviruses, including SARS-CoV, the N protein has high immunogenic activity and is abundantly expressed during infection (5). It can be detected in various patient samples including nasopharyngeal aspirate, urine, and fecal. Both S and N proteins may be potential antigens for seroidentification of COVID-19, just as many test methods have been developed for identifying SARS based on S and/or N proteins (6).
References	Zhu et al. N Engl J Med. 2020 Feb 20;382(8):727-733. Kiyotani et al. J Hum Genet. 2020 Jul;65(7):569-575. Chang et al. J Biomed Sci. 2006 Jan;13(1):59-72. Cui et al. J Virol. 2015 Sep;89(17):9029-43.

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-detection-kits/covid-19-nucleocapsid-coronavirus/40941>