

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

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CATALOG #
AAA258465

REACTIVITY
SARS-CoV-2

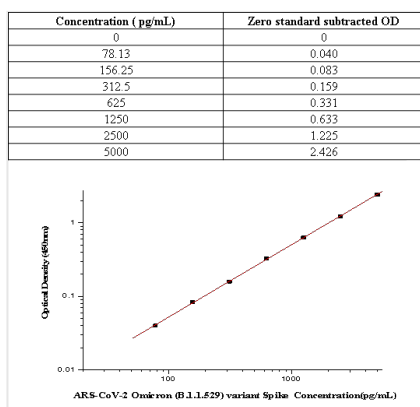
PRODUCT SYNONYMS

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

PRODUCT SPECIFICATIONS

Reactivity	SARS-CoV-2
Specificity	The kit has been verified by high purity SARS-CoV-2 Omicron (B.1.1.529) variant Spike S1 Protein
Assay Type	Solid Phase Sandwich ELISA (quantitative)
Detection Range	78.13-5000pg/mL
Sensitivity	11.13pg/mL
Conjugation	HRP
Materials Provided	1. 96 well microplate coated with Capture Antibody 2. Detection Antibody conjugated to HRP 3. Standards 4. Wash Buffer Concentrate 5. Dilution Buffer Concentrate 6. Color Reagent A 7. Color Reagent B 8. Stop Solution

IMAGES



Standard Curve (Sample)

This standard curve is only for demonstration purposes. A standard curve should be generated for each assay.

ADDITIONAL INFORMATION

Related Product Information for COVID-19 elisa kit	This SARS-CoV-2 Omicron (B.1.1.529) variant Spike ELISA Kit is an enzyme-linked immunosorbent assay for the quantitative measurement of SARS-CoV-2 Coronavirus spike protein in. It contains recombinant SARS-CoV-2 Coronavirus spike, and antibodies raised against the recombinant protein. This ELISA kit is complete and ready-to-use. Background: The spike (S) glycoprotein of coronaviruses contains protrusions that will only bind to certain receptors on the host cell. Known receptors bind S1 are ACE2, angiotensin-converting enzyme 2; DPP4, dipeptidyl peptidase-4; APN, aminopeptidase N; CEACAM, carcinoembryonic antigen-related cell adhesion molecule 1; Sia, sialic acid; O-ac Sia, O-acetylated sialic acid. The spike is essential for both host specificity and viral infectivity. The term 'peplomer' is typically used to refer to a grouping of heterologous proteins on the virus surface that function together. The spike (S) glycoprotein of coronaviruses is known to be essential in the binding of the virus to the host cell at the advent of the infection process. It's been reported that SARS-CoV-2 (COVID-19 coronavirus, 2019-nCoV) can infect the human respiratory epithelial cells through interaction with the human ACE2 receptor. The spike protein is a large type I transmembrane protein containing two subunits, S1 and S2. S1 mainly contains a receptor binding domain (RBD), which is responsible for recognizing the cell surface receptor. S2 contains basic elements needed for the membrane fusion. The S protein plays key parts in the induction of neutralizing-antibody and T-cell responses, as well as protective immunity. The main functions for the Spike protein are summarized as: Mediate receptor binding and membrane fusion; Defines the range of the hosts and specificity of the virus; Main component to bind with the neutralizing antibody; Key target for vaccine design; Can be transmitted between different hosts through gene recombination or mutation of the receptor binding domain (RBD), leading to a higher mortality rate.
References	Shen S, et al. (2007) Expression, glycosylation, and modification of the spike (S) glycoprotein of SARS CoV. Methods Mol Biol. 379: 127-35. Du L, et al. (2009) The spike protein of SARS-CoV--a target for vaccine and therapeutic development. Nat Rev Microbiol. 7 (3): 226-36. Xiao X, et al. (2004) The SARS-CoV S glycoprotein. Cell Mol Life Sci. 61 (19-20): 2428-30.

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-elisa-kits/covid-19-omicron-b-1-1-529-variant-spike-coronavirus/258465>