

Product datasheet for **EA200029**

SARS-COV-2 N Protein ELISA Kit 1 x 96

Product data:

Product Type:	ELISA Kits
Description:	SARS-COV-2 N Protein ELISA Kit 1 x 96
Size:	1 x 96 wells
Format:	8x12 divisible strips
Assay Type:	Sandwich
Assay Length:	3.5 hours incubations; 0.5 hour washing and analyzing samples
Signal:	Colorimetric
Sample Type:	Human serum, plasma and other biological fluids.
Sample Volume:	100µl
Specificity:	This kit is used for quantitative detection of SARS-COV-2 N Protein
Sensitivity:	3.4pg/ml
Reactivity:	SARS-COV-2N
Cross Reactivity:	There is no detectable cross-reactivity with other relevant proteins.
Interference:	No significant interference observed with available related molecules.
Components:	<ul style="list-style-type: none">• SARS-COV-2 N Antibody Coated 96-well Plate in foil pouch with desiccant 1 plate• Recombinant SARS-COV-2 N Standard (25ng/ml) 0.1 mL• 100x Biotin conjugated SARS-COV-2 N Detection Antibody 0.12 mL• 100x SA-HRP Conjugate 0.12 mL• Assay Buffer 60 mL• Wash Buffer Concentrate 20X 60 mL• TMB Substrate 12 mL• Stop Solution 12 mL• Plate Sealer 3 pieces



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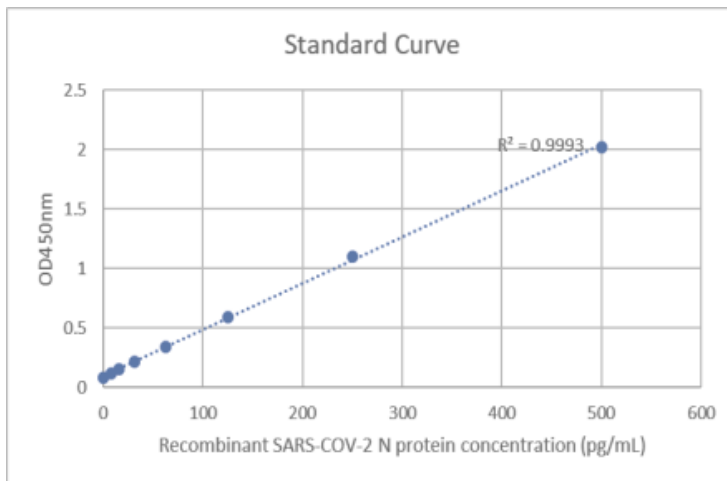
Background:

Severe acute respiratory syndrome coronavirus 2 nucleocapsid (SARS-CoV-2 N) protein is an abundant RNA-binding protein critical for viral genome packaging. SARS-CoV-2 is an enveloped, positive-strand RNA virus that causes COVID-19 (coronavirus disease 2019), the respiratory illness responsible for the COVID-19 pandemic. The nucleocapsid (N) protein of SARS COV-2 is 419 residues long, which is the most highly expressed of the four major coronavirus structural proteins. In addition to its interactions with RNA, the N protein forms protein-protein interactions with the coronavirus membrane protein (M) during the process of viral assembly. It also has additional functions in manipulating the cell cycle of the host cell. The N protein is highly immunogenic and antibodies to N protein are found in patients recovered from Covid-19. The N protein is composed of two main protein domains connected by an intrinsically disordered region (IDR) known as the linker region, with additional disordered segments at each terminus. Both the N-terminal and C-terminal domains are capable of binding RNA. The C-terminal domain forms a dimer that is likely to be the native functional state.

Standard Curve:

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Data image of SARS-COV-2 N Protein ELISA Kit.

Product images:

Data image of SARS-COV-2 N Protein ELISA Kit.