Recombinant 2019-nCoV N protein

Cat. No. N-127V **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant 2019-nCoV N protein was expressed in E. coli and purified by Ni column.
Species	Sars-Cov-2
Source	E.coli
Description	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 diagnostic tool.
Form	Liquid. PBS, pH 8.0.
Molecular Mass	47.08 kDa
Storage	For short term storage, store at 4 centigrade. For long term storage, store at -20~-70

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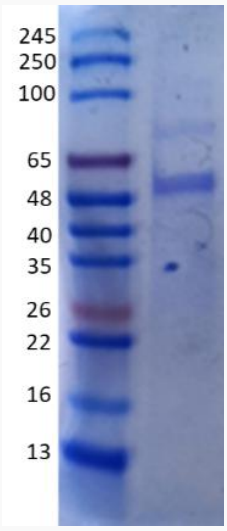
	centigrade, avoiding freeze/thaw cycles.
Concentration	1.0 mg/ml

GENE INFORMATION

Gene Name	N
Official Symbol	N
Synonyms	GU280_gp10
Gene ID	43740575
Protein Refseq	YP_009724397.2
SDS-PAGE of N-127V	

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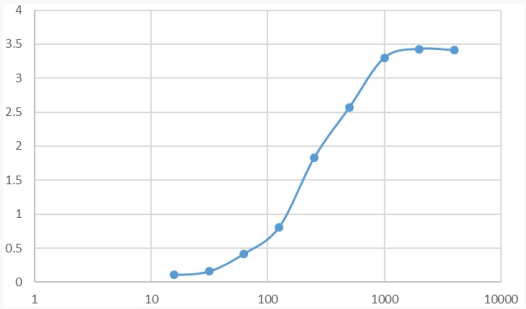
ELISA of N-127V



ELISA plate was coated by N protein, 100 μl/cell, at various concentrations. The direct ELISA analysis was performed by loading 100 μ per well of a anti C-ter His tag HRP conjugated mAb at a concentration of 1:2000. The plate was incubated for 1 hours at 37 centigrade, then washed 5 time. Detection was performed using TMB substrate for 10 minutes at room temperature in the dark. The plate was stopped with 2M sulfuric acid. Absorbances were read on a spectrophotometer at 450 nm.

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