

## 21-1003: Recombinant SARS-CoV-2/COVID-19 Nucleocapsid Protein His Tag

**Gene :** N  
**Uniprot ID :** P0DTC9  
**Alternative Name :** Nucleocapsid protein;NP;Nucleoprotein;cov np;Protein N

### Description

**Source:** *E. coli*. Recombinant SARS-CoV-2/COVID-19 Nucleocapsid Protein His Tag is produced by *E. coli* expression system. The target protein is expressed with sequence (Ser2-Ala419) of SARS-CoV-2/COVID-19 Nucleocapsid fused with an 6xHis tag in N-Terminal.

### Product Info

**Amount :** 50 µg / 100 µg  
**Purification :** > 95% by SDS-PAGE.  
**Content :** 0.5 mg/ml in 50 mM Tris, pH-7.4, 300 mM NaCl and 10% Glycerol  
**Storage condition :** Recombinant SARS-CoV-2/COVID-19 Nucleocapsid Protein His Tag is shipped on ice packs. Upon arrival, Store at -20 ° C. Do not freeze-thaw multiple times.  
**Amino Acid :** The target protein is expressed with sequence (Ser2-Ala419) of SARS-CoV-2/COVID-19 Nucleocapsid fused with an 6xHis tag in N-Terminal. MRGSHHHHHH GMASHMSDNG PQSNQRSAPR ITFGGPTDST DNNQNGGRNG ARPKQRRPQG LPNNTASWFT ALTQHGKEEL RFPRGQGVPI NTNSGPDDQI GYYRRATRRV RGGDGKMKEL SPRWYFYLG TGPEASLPYG ANKEGIVVVA TEGALNTPKD HIGTRNPNNN AATVLQLPQG TTLPKGFYAE GSRGGSQASS RSSSRSGNS RNSTPGSSRG NSPARMASGG GETALALLL DRLNQLESKV SGKGQQQQQG TVTKKSAAEA SKKPRQKRTA TKQYNVTQAF GRRGPEQTQG NFGDQDLIRQ GTDYKHWPI AQFAPSASAF FGMSRIGMEV TPGSTWLTYP GAIKLDDKDP QFKDNVILLN KHIDAYKTFP PTEPKKDKKK KTDEAQPLPQ RQKKQPTVTL LPAADMDDFS RQLQNSMSG A SADSTQA.

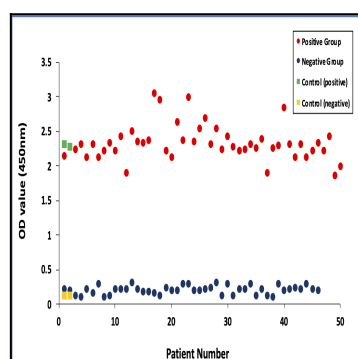


Figure-1: Detection of SARS-CoV-2 IgG using Recombinant SARS-CoV-2/COVID-19 Nucleocapsid Protein His-tag (Cat. No. 21-1003). The wells of an ELISA plate were coated with 100 ng of nucleocapsid protein. SARS-CoV-2 antibodies were detected from patients' samples (1:100 dilution). An anti-nucleocapsid human antibody was used as a positive control.

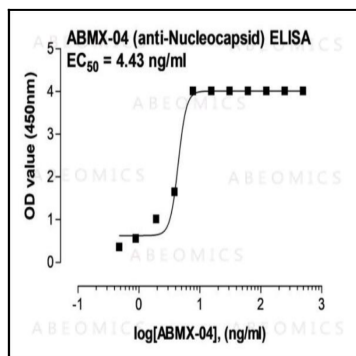


Figure-2: ELISA detection of Anti-SARS-CoV-2 Nucleocapsid antibody (ABMX-004) cat. no. 10-2007. An ELISA plate coated with 100 ng of Nucleocapsid protein (Abeomics, Cat. No. 21-1003) was incubated over night at 4C. Different concentrations of Anti-Nucleocapsid recombinant human antibody (ABMX-004) was added to the plate. Goat anti-human Fc HRP was used as detection antibody.

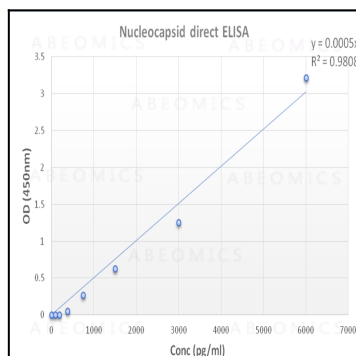


Figure-3: Wells of a 96-microtiter plate were coated with 4µg/ml of Recombinant SARS-CoV-2/COVID-19 Nucleocapsid Protein His Tag. The binding was detected by addition of different dilution of Coronavirus (COVID-19) Nucleocapsid Antibody (Abeomics Cat. No. 11-2003). The reactivity was detected by a HRP-conjugated goat-anti-rabbit polyclonal antibody.

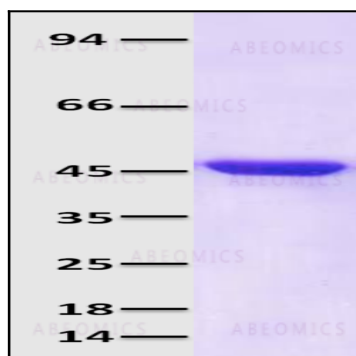


Figure-4: SDS-PAGE analysis of purified Recombinant SARS-CoV-2/COVID-19 Nucleocapsid Protein His Tag. 2 µg protein was run on a 4-20% SDS-PAGE gel followed by Coomassie blue staining.

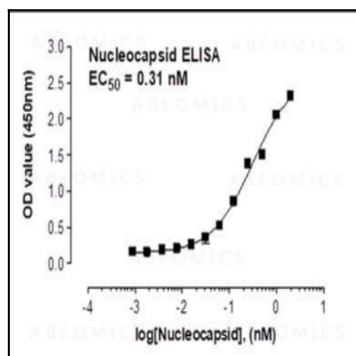


Figure-5: The Sandwich ELISA was carried out by coating the 96 well plate with 200 ng/well of ABM4H11.1C12 (Cat#10-10035) monoclonal antibody. The nucleocapsid protein (21-1003) was serially diluted from 10 ng to 0.0004ng in triplicates across rows. The 11-2004 polyclonal antibody (200 ng/well ) was used as detection. Goat Anti-rabbit HRP was used as secondary antibody.