



**IBT BIOSERVICES**

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## SARS-CoV-2 Nucleocapsid protein

**Catalog #:** 0572-001

**Lot #:** 2007002

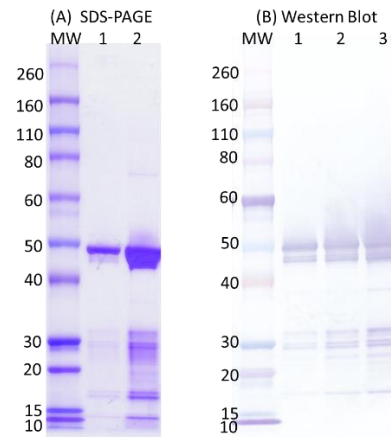
**Description:** SARS-CoV-2 N-protein (His-tag) is produced in *E. coli* and is purified by FPLC. Theoretical MW ~47 kDa

**Storage:** 2-3 weeks at -20°C, -80°C long term

**Size:** 100 µg of protein supplied in HEPES buffer with sodium salt, at a concentration of 1.173 mg/mL.

**Relevance:** As control protein for immunoassays and a tool to enhance research.

### SDS-PAGE & Western Blot Detection



(A) SDS-PAGE and stain demonstrating 1 µg and 5 µg (lanes 1-2) of SARS-CoV-2 Nucleocapsid protein under denaturing and reducing conditions. MW denotes Novex® Sharp prestained protein marker. (B) Western blot detection of Nucleocapsid protein at 25 ng, 50 ng and 100 ng (lanes 1-3) using rabbit anti-N pAb and anti-rabbit IgG-HRP conjugate, followed by TMB membrane substrate.

### ELISA Data

| SARS-CoV-2 Nucleocapsid ng/well | OD 650 nm |
|---------------------------------|-----------|
| 400.000                         | 3.654     |
| 200.000                         | 3.650     |
| 100.000                         | 3.660     |
| 50.000                          | 3.606     |
| 25.000                          | 3.458     |
| 12.500                          | 3.364     |
| 6.250                           | 3.126     |
| 3.125                           | 2.651     |
| 1.563                           | 2.001     |
| 0.781                           | 1.447     |

Plate was coated with SARS-CoV-2 Nucleocapsid protein starting at 400 ng/well, serially diluted 2-fold in DPBS. Washed plate was probed using one dilution of the rabbit anti-N pAb and detected with anti-rabbit IgG HRP conjugate followed by TMB substrate. OD<sub>650</sub> is reported. Background was 0.072 OD<sub>650</sub>.

**Related Products:** IBT provides a wide array of anti-filovirus specific antibodies and other infectious disease reagents. Please see our website, [www.ibtbioservices.com](http://www.ibtbioservices.com) for more details.

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