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SARS-CoV-2 Nucleocapsid Polyclonal Antibody

ANT0090

100µL

Description

Severe acute respiratory syndrome coronavirus 2 (SARS-CoV-2) nucleocapsid protein is a viral protein encoded by the N gene in SARS-CoV-2 RNA. The SARS-CoV-2 genome contains approximately 30 kilobases that encode four structural proteins: spike, envelope, membrane, and nucleocapsid. The nucleocapsid protein packages the viral RNA into a helical ribonucleoprotein complex (RNP) that is a template for viral replication. The SARS-CoV-2 nucleocapsid protein plays a fundamental role for viral self-assembly and is involved with regulation of the cell cycle. SARS-CoV-2 is the causative agent of COVID-19, a primarily respiratory illness characterized by fever, cough, and shortness of breath that can lead to life-threatening complications. SARS-CoV-2 Nucleocapsid Polyclonal Antibody is designed for the detection of Nucleocapsid protein and it is an useful tool for SARS-CoV-2 studies using different research applications.

Product type

Primary polyclonal antibody

Immunogen

SARS CoV-2 Nucleocapsid recombinant protein expressed in *E. coli* (Diatheva REP0072-REP0073)

Source

Rabbit

Reacts with

Nucleocapsid from SARS-CoV-2

Specificity

Nucleocapsid from SARS-CoV-2 in infected specimens

Tested applications

ELISA

Recommended dilutions

Recommended starting dilutions can vary lot-to-lot.
Consult the suggested starting dilutions on the top of the page for lot specific values.

Note: When using any primary antibody or labelled secondary antibody for the first time, titrate out the antibody to determine which dilution allows the strongest specific signal with the lowest background for your sample.

Purity

Polyclonal immunoglobulins purified by protein A affinity chromatography.

Form

Liquid. Supplied in 100mM sodium citrate, 50mM Tris and 0.05% v/v glycerol. Neutral pH.

Storage

Shipped at +4°C. When stored at +4°C, the antibody is stable for 18 months. For extended storage, the solution may be frozen at -20°C in working aliquots.

Note: Avoid repeated freezing and thawing cycles.

Reference

- Lu, R., Zhao, X., Li, J., et al.** Genomic characterization and epidemiology of 2019 novel coronavirus: Implications for virus origins and receptor binding. **Lancet** **395**(10224), 565-574 (2020).
- Ahmed, S.F., Quadeer, A.A., and McKay, M.R.** Preliminary identification of potential vaccine targets for the COVID-19 coronavirus (SARS-CoV-2) based on SARS-CoV immunological studies. **Viruses** **12**(3), E254 (2020).
- Chang, C.-K., Hou, M.-H., Chang, C.-F., et al.** The SARS coronavirus nucleocapsid protein – forms and functions. **Antiviral Res.** **103**, 39-50 (2014).