

## Mouse Anti-SARS-CoV-2 (2019-nCoV) Nucleocapsid antibody

SLM-41482M

**Product Name** SARS-CoV-2 (2019-nCoV) Nucleocapsid

**Chinese Name** SARS 冠状病毒 2 核衣壳蛋白单克隆抗体

**Alias** SARS-CoV-2 Nucleocapsid Protein; SARS-CoV-2 NP; nucleocapsid protein [Severe acute respiratory syndrome coronavirus 2]; novel coronavirus N Protein; novel coronavirus Nucleocapsid Protein; 2019-nCoV Nucleoprotein; 2019-nCoV N; 2019nCoV N; 2019-nCoV N Protein; 2019 ncov N Protein; 2019-nCoV nucleocapsid protein.

**Research Area** Bacteria and viruses

**Immunogen Species** Mouse

**Clonality** Monoclonal

**Clone NO.** 9D2-E3

**React Species** SARS-CoV-2  
WB=1:500-2000

**Applications** not yet tested in other applications.  
optimal dilutions/concentrations should be determined by the end user.

**Theoretical molecular weight** 46kDa

**Form** Liquid

**Concentration** 1mg/ml

**immunogen** Recombinant SARS-CoV-2 Nucleocapsid Protein: 1-419/419

**Lsotype** IgG

**Purification** affinity purified by Protein A

**Buffer Solution** SARS-CoV-21M TBS(pH7.4) with 1% BSA, SARS-CoV-23% Proclin300 and 50% Glycerol.

**Storage** Shipped at 4°C. Store at -20 °C for one year. Avoid repeated freeze/thaw cycles.

**Attention** This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.

**PubMed**

[PubMed](#)

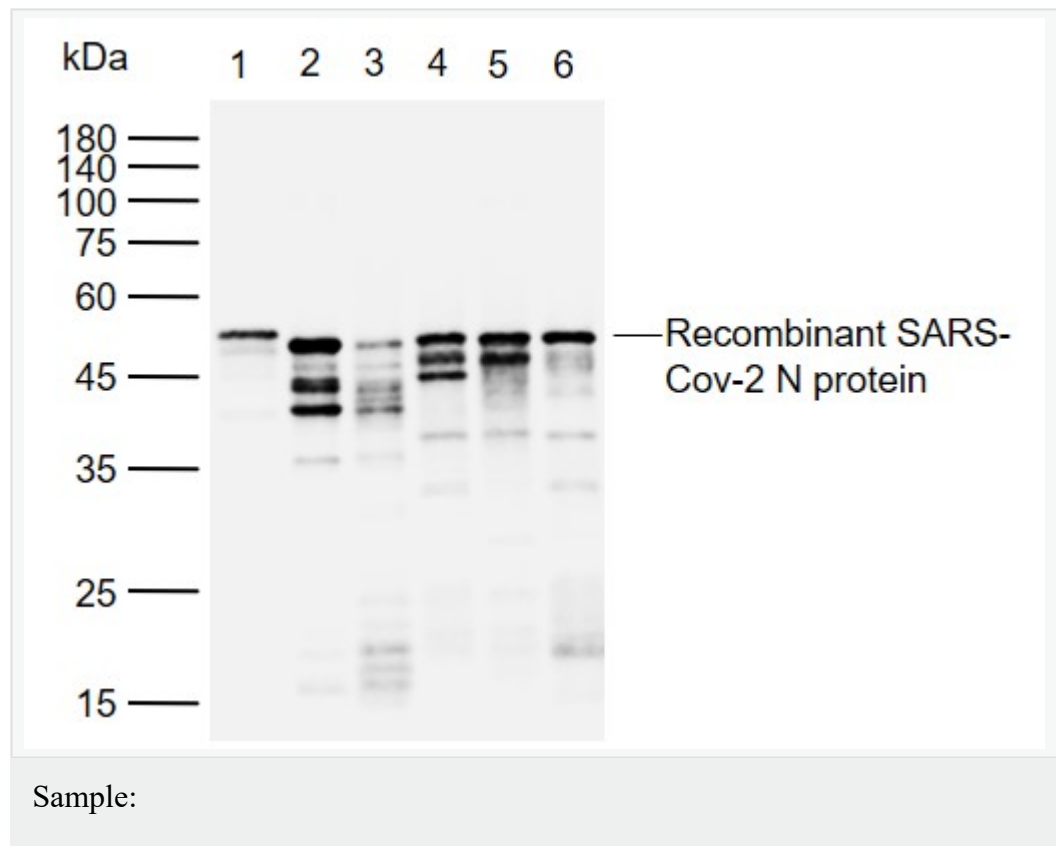
Coronaviruses are enveloped viruses with a positive-sense RNA genome and with a nucleocapsid of helical symmetry. Coronavirus nucleoproteins localize to the cytoplasm and the nucleolus, a subnuclear structure, in both virus-infected primary cells and in cells transfected with plasmids that express N 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.

**Product Detail**

**SWISS:**  
P0DTC9

**Gene ID:**  
43740575

**Product Picture**



Lane 1: Recombinant SARS-CoV-2 N protein (WT) (His Tag) (SL41408P)

Lane 2: Recombinant SARS-CoV-2 N protein (Q9H, P67S, P80R, P151L, S183Y) (His Tag) (SL41451P)

Lane 3: Recombinant SARS-CoV-2 N protein (D3L, P13T, D103Y, D128Y, H145Y, R203K, G204R, T205I, S235F) (His Tag) (SL41452P)

Lane 4: Recombinant SARS-CoV-2 N protein (Del204, Del215) (His Tag) (SL41491P)

Lane 5: Recombinant SARS-Cov-2 N protein (R203M, D377Y) (His Tag) (SL41492P)

Lane 6: Recombinant SARS-Cov-2 (Omicron, B.1.1.529) N protein (P13L, E31del, R32del, S33del, R203K, G204R) (N-His Tag) (SL41494P)

Primary: Anti-SARS-CoV-2(2019-nCoV)Nucleocapsid(SLM-41482M) at 1/1000 dilution

Secondary: IRDye800CW Goat Anti-Mouse IgG at 1/20000 dilution

Predicted band size: 46 kDa

Observed band size: 50 kDa