

**Product no** **AS20 4388****Human Novel Coronavirus Nucleoprotein(N)****Product information****Format** Lyophilized

**Storage** Store lyophilized/reconstituted at -20°C/-80°C. Reconstitute in deionized sterile water to a concentration from 0.1-1.0 mg/ml and add 5-50% of glycerol (final concentration). 50 % glycerol is a default final recommended concentration. Make aliquots to avoid repeated freeze-thaw cycles. Please remember to spin the tubes briefly prior to opening them to avoid any losses that might occur from material adhering to the cap or sides of the tube. Working aliquotes can be stored at 4 °C for up to one week. Shelf life of liquid form is 6 months at -20°C/-80°C. The shelf life of lyophilized form is 12 months at -20°C/-80°C.

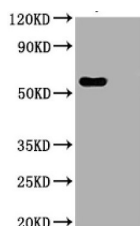
**Application information**

**Additional information** N-terminal His tagged Nucleoprotein (N) (6xHis) was overexpressed in *E. coli* in the region 1-419 amino acids UniProt [P0DTC9](#): MSDNGPQNQRNAPRITFGGSDSTGNSQNGERSGARSKQRRPQGLPNNTASW  
 FTALTQHGKEDLKFPRGQGVPIINTNSSPDDQIGYYRRATRRIRGGDGKMKDLSP  
 RWYFYLLGTGPEAGLPYGANKDGIWVATEGALNTPKDHIGTRNPANNAIIVLQL  
 PQGTTLPKGFYAEGSRGGSQASSRSSSRNRNSTRPGSSRGTSPARMAGNG  
 GDAALALLLLDRLNQLESKMSGKGGQQGQTVTKKSAEASKKPRQKRTATKAY  
 NVTQAFGRRGPEQTQGNFGDQELIRQGTDYKHWPIAQFAPSASAFFGMSRIG  
 MEVTPSGTWLTYTAAIKLDDKDPNFKDQVILLNKHIDAYKTFPPTPKKDKKKKA  
 DETQALPQRQKKQQTVTLLPAADLDDFSKQLQQSMSSADSTQA

**This product is a positive control for Nucleoprotein (N) of Novel Coronavirus SARS-CoV-2/ 2019-nCoV (human) antibodies ([AS20 4387](#)).**

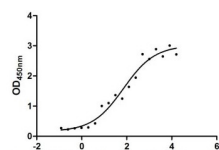
Purity: >90 % as confirmed by SDS-PAGE

Buffer: 0.2 µm filtered 20 mM Tris-HCl, 0.5 M NaCl, 6% Trehalose, pH 8.0

**Application examples**

Western blot using 200 ng/well of His tag-tagged SARS-CoV-2 nucleocapsid recombinant protein overexpressed in *E. coli*, detected by anti-Nucleoprotein (N) of Novel Coronavirus SARS-CoV-2/ 2019-nCoV (human) antibodies ([AS20 4387](#)) used at 1:1000 and combined with Goat Anti-Human IgG, Fc Fragment Specific, HRP conjugated secondary antibodies ([AS20 4390](#)) at 1: 20 000. Reaction was visualised with chemiluminescent detection reagent according to manufacture's recommendations.

Note: Predicted band size: 48 kDa Observed band size: 55 kDa



Functional ELISA of immobilized Nucleoprotein (N) at 5 µg/ml which can bind anti-Nucleoprotein (N) of Novel Coronavirus SARS-CoV-2/ 2019-nCoV (human) antibodies ([AS20 4387](#)), with the EC<sub>50</sub> 43.50-118.4 ng/ml.