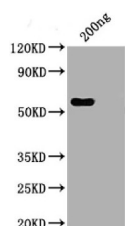


Product no **AS20 4387****Nucleoprotein (N) of Novel Coronavirus SARS-CoV-2/ 2019-nCoV (human)****Product information**

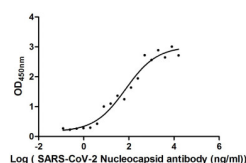
<b>Immunogen</b>	Recombinant Human Novel Coronavirus Nucleoprotein (N) (1-419aa), UniProt: <a href="#">P0DTC9</a>
<b>Host</b>	Mouse
<b>Clonality</b>	Monoclonal recombinant (clone 1A6)
<b>Subclass/isotype</b>	Mouse scFv fusion with human IgG1 Fc
<b>Purity</b>	Affinity chromatography purified in 10 mM PBS, pH 7.4, 50 % glycerol, 0.03% Proclin 300.
<b>Format</b>	Liquid
<b>Quantity</b>	100 µl
<b>Storage</b>	Store at -20 °C or -80 °C; once reconstituted 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.

**Application information**

<b>Recommended dilution</b>	1: 10 000 - 1: 50 000 (ELISA), 1: 500-1: 5000 (WB)
<b>Expected   apparent MW</b>	45 kDa
<b>Confirmed reactivity</b>	Human Nucleoprotein (N) of Novel Coronavirus SARS-CoV-2/ 2019-nCoV
<b>Not reactive in</b>	No confirmed exceptions from predicted reactivity are currently known
<b>Additional information</b>	Recombinant anti-SARS-CoV-2 Nucleoprotein Mouse ScFv were expressed in 293 cells (HEK293) with a human IgG1 Fc tag on C-terminal. Therefore, anti-human IgG1 Fc, secondary antibody has to be used: <a href="#">AS10 791</a>   Anti-Human IgG Fc, HRP conjugated, goat antibodies <a href="#">AS10 797</a>   Anti-Human IgG Fc, HRP conjugated, min. cross-reactivity bovine/mouse/rabbit serum, goat antibodies <a href="#">AS10 787</a>   Anti-Human IgG Fc, ALP conjugated, goat antibodies <a href="#">AS10 793</a>   Anti-Human IgG Fc, ALP conjugated, min. cross-reactivity to bovine/mouse/rabbit serum, goat antibodies

**Application example**

200 ng of His tag-tagged SARS-CoV-2 nucleocapsid recombinant protein overexpressed in *E. coli* was separated on a 10 % SDS-PAGE and transferred to nitrocellulose. The membrane was blocked with 5 % non-fat milk and following a series of washes with TBS-T and incubated with anti-SARS-CoV-2 nucleocapsid antibodies at a dilution of 1:1000 at RT for 2 h. Following a series of washes with TBS-T the membrane was incubated with a secondary antibody, goat anti-human IgG, Fc fragment at 1: 20 000 for 1h/RT. Following a standard series of washes with TBS-T, reaction was visualised with chemiluminescence following manufacture's recommendations. Predicted size of target protein is 48 kDa, detected band size is 55 kDa due to a His tag.



Wells were coated with Human Novel Coronavirus Nucleoprotein(N) ([AS20 4388](#)) at 5 µg/ml and could bind anti- Nucleoprotein (N) antibodies with  $E_{50}$  of 43.50-118.4 ng/ml.