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Product no AS20 4387

Nucleoprotein (N) of Novel Coronavirus SARS-CoV-2/ 2019-nCoV (human)

Product information

Background	**Nucleaoprotein (N) of Novel Coronavirus SARS-CoV-2/ 2019-nCoV (human)** plays a fundamental role during virion assembly through packaging of the positive strand viral genome RNA into a helical ribonucleocapsid (RNP). Alternative names: NC, Protein N**,** Nucleocapsid protein
Immunogen	Recombinant Human Novel Coronavirus Nucleoprotein (N) (1-419aa), UniProt: P0DTC9
Host	Mouse
Clonality	Monoclonal recombinant (clone 1A6)
Subclass/isotype	Mouse scFv fusion with human IgG1 Fc
Purity	Affinity chrompatography purified in 10 mM PBS, pH 7.4, 50 % glycerol, 0.03% Proclin 300
Format	Liquid
Quantity	100 µl
Storage	Store at -20°C or -80°C; once reconstituted make aliquots to avoid repeated freeze-thaw cycles. Please, remember to spin tubes briefly prior to opening them to avoid any losses that might occur from material adhering to the cap or sides of the tubes.
Tested applications	ELISA (ELISA), Western blot (WB)
Related products	**Matching secondary antibodies to human Fc:** AS10 791 | Anti-Human IgG Fc, HRP conjugated, goat antibodies AS10 797 | Anti-Human IgG Fc, HRP conjugated, min. cross-reactivity bovine/mouse/rabbit serum, goat antibodies AS10 787 | Anti-Human IgG Fc, ALP conjugated, goat antibodies AS10 793 | Anti-Human IgG Fc, ALP conjugated, min. cross-reactivity to bovine/mouse/rabbit serum, goat antibodies Products for coronovirus research

Application information

Recommended dilution	1: 10 000 - 1: 50 000 (ELISA), 1: 500-1: 5000 (WB)
Expected | apparent MW	45 kDa
Confirmed reactivity	Human Nucleoprotein (N) of Novel Coronavirus SARS-CoV-2/ 2019-nCoV
Not reactive in	No confirmed exceptions from predicted reactivity are currently known
Additional information	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: AS10 791 | Anti-Human IgG Fc, HRP conjugated, goat antibodies AS10 797 | Anti-Human IgG Fc, HRP conjugated, min. cross-reactivity bovine/mouse/rabbit serum, goat antibodies AS10 787 | Anti-Human IgG Fc, ALP conjugated, goat antibodies AS10 793 | Anti-Human IgG Fc, ALP conjugated, min. cross-reactivity to bovine/mouse/rabbit serum, goat antibodiesFor high resolution images, please visit the specific product page at www.agrisera.com

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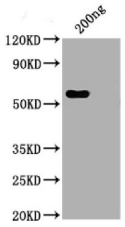
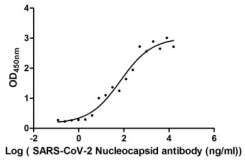
Application example



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.