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12-4002-B: Anti SARS-CoV-2 Nucleocapsid Rabbit mAb (Clone:84C4a) Biotin Conjugate

Clonality :	Monoclonal
Clone Name :	84C4a
Application :	ELISA
Conjugate :	Biotin
Gene :	N
Gene ID :	43740575
Uniprot ID :	P0DTC9
Format :	Purified
Isotype :	Rabbit IgG1 k
Immunogen Information :	SARS-CoV-2 nucleoprotein (NP) specific peptide.

Description

SARS-CoV-2 Nucleocapsid antibodies, which include clones 75G5a, 84C4a, 84D7 and 85C1 can be paired in sandwich detection assay and used to detect nucleoprotein (NP) antigen from SARS-CoV-2. These antibodies do not cross-react to the highly related SARS-CoV virus or to any other coronaviruses tested. Sandwich ELISA detection using TMB/acid developer reliably detects NP antigen in the pg/mL range, and sensitivity is expected to be even higher when using more sensitive developer strategies. This panel of antibodies can be used as raw materials for diagnostic kits and can be applied to lateral flow systems for diagnostic detection of COVID-19.

Product Info

Amount :	200 uL (0.5 mg/mL)
Purification :	Protein A Chromatography
Content :	1X PBS, 0.02% NaN3
Storage condition :	Store at 2 - 8°C. Do Not Freeze.

Application Note

Used for specific, high-sensitivity detection of SARS-CoV-2 nucleocapsid protein (NP) in immunoassay. Can be paired with other NP-specific clones for detection in sandwich ELISA format.

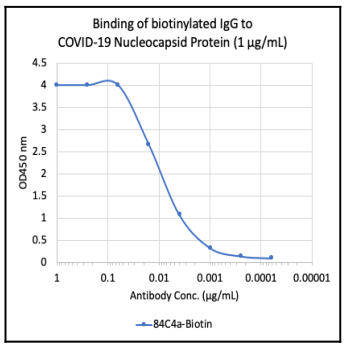


Figure 1: Microtiter wells were coated with SARS-CoV-2 (COVID-19) Nucleocapsid Protein (NP) at 1 ug/mL. SARS-CoV-2 Nucleocapsid Rabbit mAb Biotin Conjugate (Cat# 12-4002-B) was serially diluted 1:2 starting at 1 ug/mL, and shows high-sensitivity binding to COVID-19 NP antigen.

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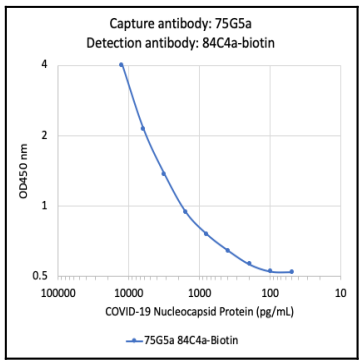


Figure 2: A sandwich ELISA was performed using SARS-CoV-2 (COVID-19) Nucleocapsid Protein (NP) specific rabbit monoclonal antibodies: Anti-SARS-CoV-2 Nucleocapsid Rabbit mAb (Clone:75G5a) (Cat# 12-4001) as a capture antibody and Anti-SARS-CoV-2 Nucleocapsid Rabbit mAb (Clone 84C4a) Biotin Conjugate (Cat# 12-4002-B) as a detection antibody. COVID-19 NP was serially diluted 1:2 starting at 25 ng/mL. Rabbit monoclonal antibodies 75G5a and 84C4a-biotin detected COVID-19 NP antigen at very high sensitivity, as low as 100 pg/mL (10 pg).

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