SARS-CoV-2 Nucleoprotein (NP) (84C4a) rabbit mAb

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Catalog: #2486 **Store at:** 2-8ºC

For Research Use Only. Not For Use In Diagnostic Procedures.

Applications	Detection	Clonality	Isotype
ELISA	Anti-Rabbit IgG	Monoclonal	Rabbit IgGk

Format: Unconjugated

Cross Reactivity: Highly-specific to SARS-CoV-2 nucleoprotein; does not cross-react with nucleoprotein from SARS-CoV or other coronaviruses.

Formulation: 1X PBS, 0.02% NaN3

Preparation: Protein A

Reactivity: Other

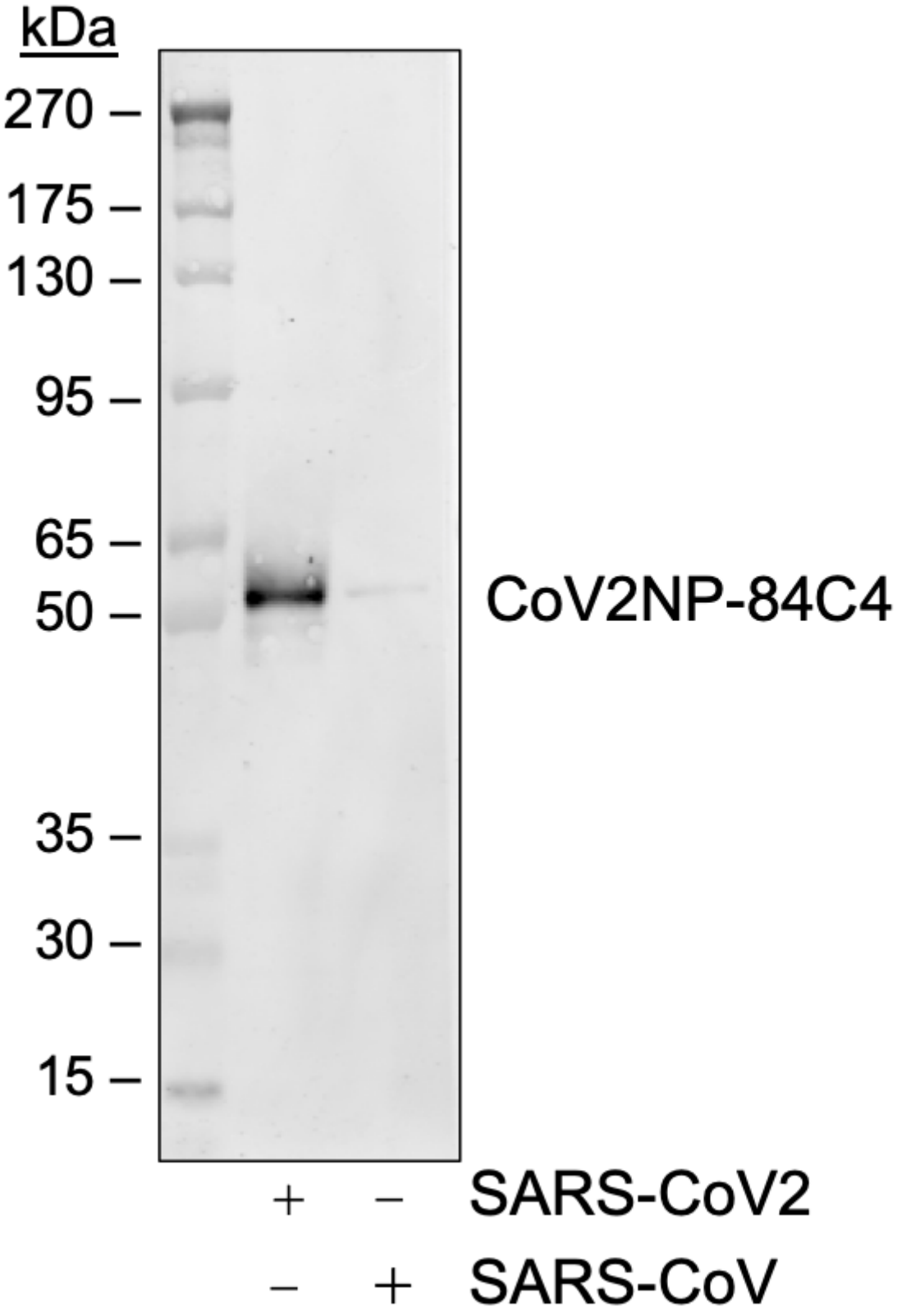
Recommended Usage: Used for specific, high-sensitivity detection of SARS-CoV-2 nucleocapsid protein (NP) in immunoassay. Can be paired with other NP-specific clones for detection in sandwich ELISA format.

Immunogen: SARS-CoV-2 nucleoprotein (NP) specific peptide

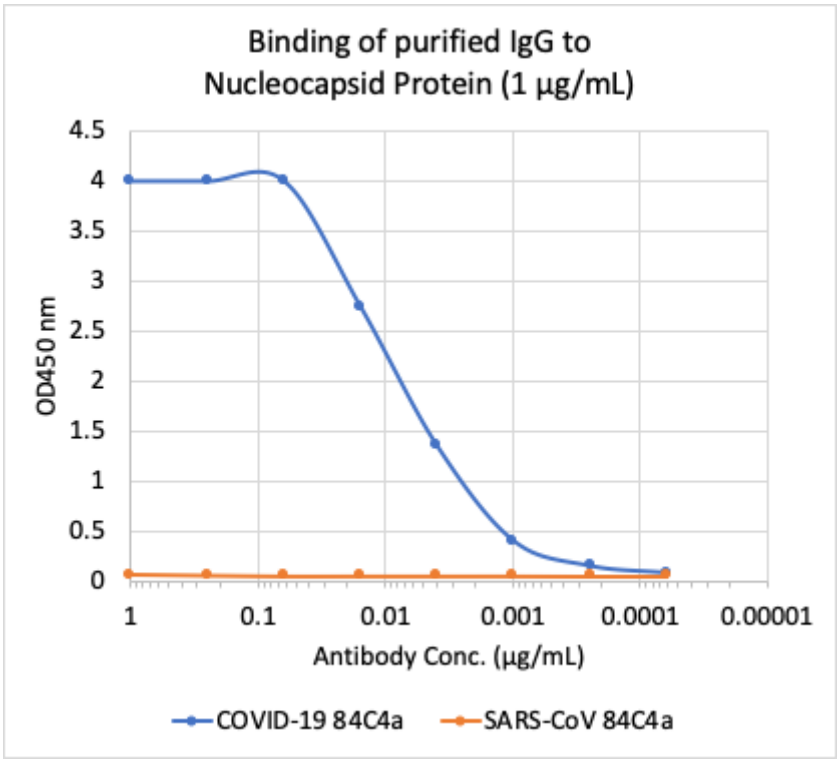
Description: We have leveraged our next-generation rabbit mAb discovery platform to develop recombinant rabbit monoclonal antibodies with extremely high sensitivity and specificity to SARS-CoV-2. These antibodies, which include clones 75G5a (Abwiz Cat. #2481), 84C4a (Abwiz Cat. #2486), 84D7 (Abwiz Cat. #2491), and 85C1 (Abwiz Cat.#2496) can be paired in sandwich detection assay and used to detect nucleoprotein (NP) antigen from SARS-CoV-2. Antibodies 75G5a, 84C4a, and 84D7 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.

References:

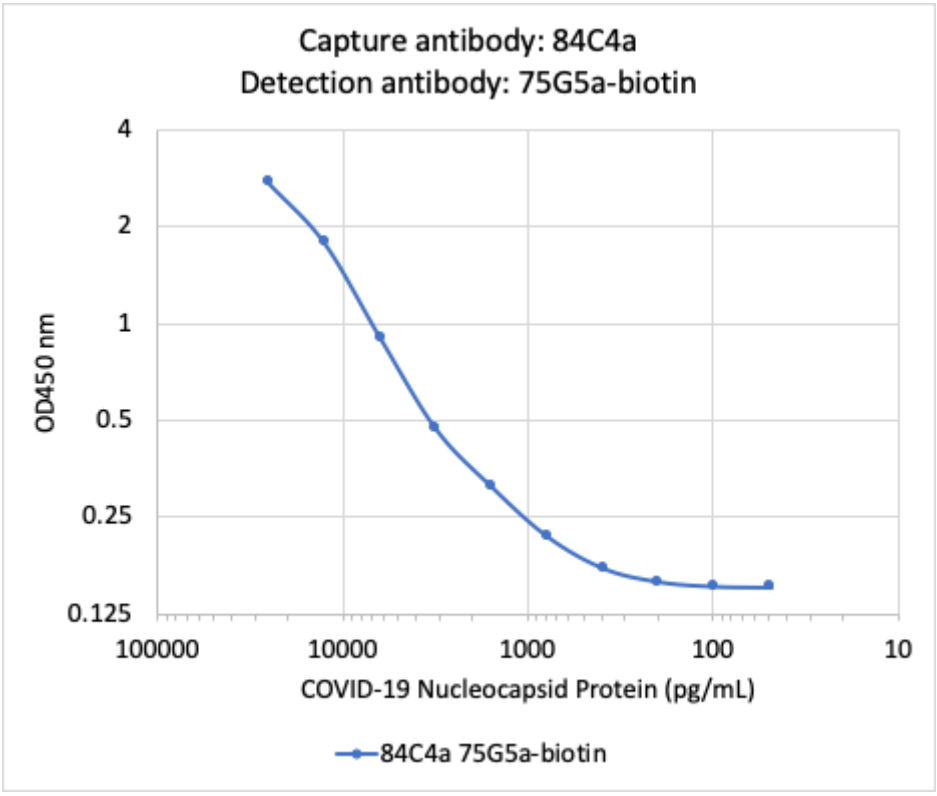
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Western blot analysis of SARS-CoV2 and SARS-CoV nucleocapsid protein (50 ng) probed with 1 ug/mL CoV2NP rabbit monoclonal antibody (84C4a), CoV2NP-84C4. Cat. #2486.



Microtiter wells were coated with SARS-CoV-2 (COVID-19) Nucleocapsid Protein (NP) and SARS-CoV NP at 1 ug/mL. Purified rabbit monoclonal antibody 84C4a (Cat# 2486) was serially diluted 1:2 starting at 1 ug/mL, and shows very strong and specific binding to COVID-19 NP antigen, with no significant cross-reactivity to SARS-CoV NP antigen.



A sandwich ELISA was performed using SARS-CoV-2 (COVID-19) Nucleocapsid Protein (NP) specific rabbit monoclonal antibodies: 84C4a (Cat# 2486) as a capture antibody and 75G5a-biotin (Cat# 2482) as a detection antibody. COVID-19 NP was serially diluted 1:2 starting at 25 ng/mL. Rabbit monoclonal antibodies 84C4a and 75G5a-biotin detected COVID-19 NP antigen at very high sensitivity as low as 49 pg/mL (4.9 pg).

Clone	K_D (M)	K_{on} (1/Ms)	K_{Off} (1/s)
75Ga	$8.25x10^{-11}$	$1.36x10^{5}$	$1.12x10^{-5}$
84C4a	$9.38x10^{-11}$	$1.53x10^{5}$	$1.43x10^{-5}$
84D7	$2.23x10^{-10}$	$7.43x10^{4}$	$1.66x10^{-5}$

Affinity measurement of SARS-CoV-2 (84C4a) antibody.

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