Recommended Pair - SARS-CoV-2 Nucleoprotein (NP) rabbit mAb (75G5a)

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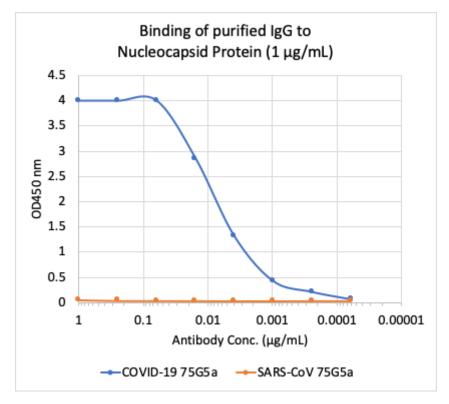
Catalog: #2481 Store at: 2-8°C

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

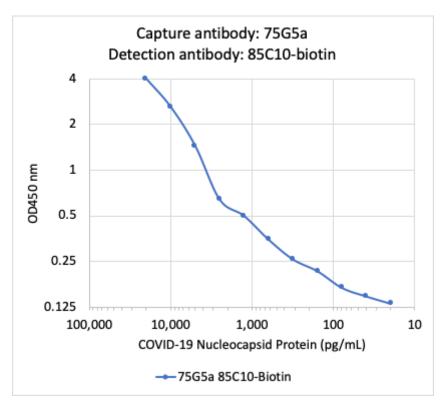
Applications ELISA	Detection Anti-Rabbit IgG	Clonality Monoclonal	Isotype Other
Format:	Unconjugated		
Cross Reactivity:	Highly-specific to SARS-CoV-2 nucleoprotein; does not cross-react with nucleoprotein from SARS-CoV or other coronaviruses.		
Formulation:	1X PBS, 0.02% NaN3		
Preparation:	Protein 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:	N/A		
Description:	For highest sensitivity, we recommend pairing unconjugated clone 75G5a (Abwiz Cat. #2481), immobilized on the ELISA plate to capture COVID-19 NP antigen, with biotin-conjugated clone 85C10 (Abwiz Cat. #2507) for detection using high-sensitivity streptavidin-HRP (Pierce #21130). Other unconjugated and biotinylated anti-NP clones are provided as alternatives and also show high sensitivity and specificity.		
	We have leveraged our next-general develop recombinant rabbit monoclosensitivity and specificity to SARS-Co 75G5a (Abwiz Cat. #2481), 84C4a (#2491), and 85C1 (Abwiz Cat. #2491) assay and used to detect nucleoprot Antibodies 75G5a, 84C4a, and 84D7 SARS-CoV virus or to any other coror using TMB/acid developer reliably desensitivity is expected to be even high strategies. This panel of antibodies of kits and can be applied to lateral flow COVID-19.	onal antibodies with extreme by-2. These antibodies, which Abwiz Cat. #2486), 84D7 (Al 6) can be paired in sandwick ein (NP) antigen from SARS- do not cross-react to the high naviruses tested. Sandwich letects NP antigen in the pg/r gher when using more sensition be used as raw materials	ely high th include clones owiz Cat. h detection CoV-2. ghly related ELISA detection nL range, and tive developer s for diagnostic



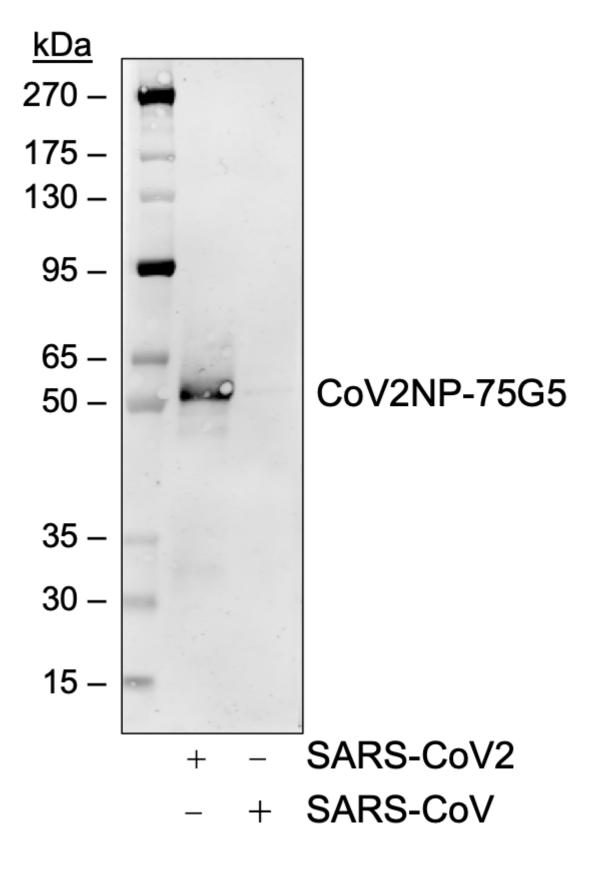
References:



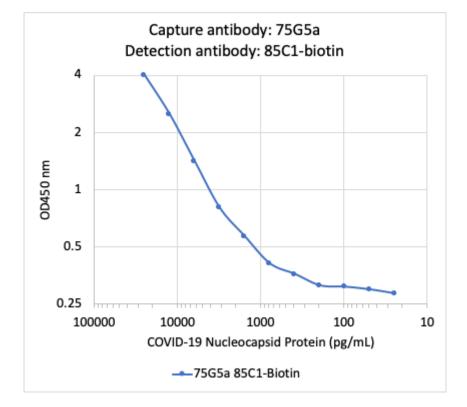
Microtiter wells were coated with SARS-CoV-2 (COVID-19) Nucleocapsid Protein (NP) and SARS-CoV NP at 1 ug/mL. Purified rabbit monoclonal antibody 75G5a (Cat# 2481) was serially diluted 1:2 starting at 1 ug/mL, and shows very strong and specific binding to



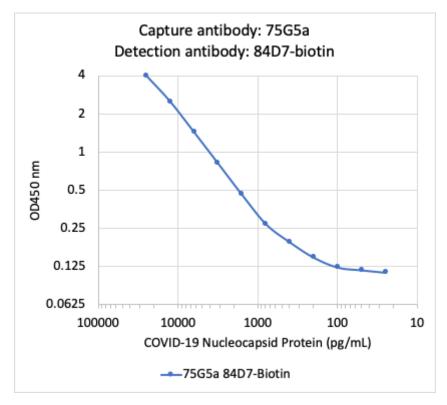
A sandwich ELISA was performed using SARS-CoV-2 (COVID-19) Nucleocapsid Protein (NP) specific rabbit monoclonal antibodies: 75G5a (Cat# 2481) as a capture antibody and 85C10-biotin (Cat# 2507) as a detection antibody. COVID-19 NP was serially diluted 1:2



Western blot analysis of SARS-CoV2 and SARS-CoV nucleocapsid protein (50 ng) probed with 1 ug/mL CoV2NP rabbit monoclonal Antibody (75G5a), CoV2NP-75G5. Cat. #2481.



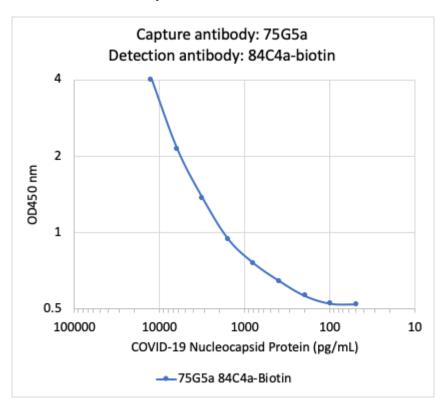
A sandwich ELISA was performed using SARS-CoV-2 (COVID-19) Nucleocapsid Protein (NP) specific rabbit monoclonal antibodies: 75G5a (Cat# 2481) as a capture antibody and 85C1-biotin (Cat# 2497) as a detection antibody. COVID-19 NP was serially diluted 1:2 s



A sandwich ELISA was performed using SARS-CoV-2 (COVID-19) Nucleocapsid Protein (NP) specific rabbit monoclonal antibodies: 75G5a (Cat# 2481) as a capture antibody and 84D7-biotin (Cat# 2492) as a detection antibody. COVID-19 NP was serially diluted 1:2 s

Clone	$K_D(M)$	K _{on} (1/Ms)	K _{0ff} (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 (75Ga) antibody.



A sandwich ELISA was performed using SARS-CoV-2 (COVID-19) Nucleocapsid Protein (NP) specific rabbit monoclonal antibodies: 75G5a (Cat# 2481) as a capture antibody and 84C4a-biotin (Cat# 2487) as a detection antibody. COVID-19 NP was serially diluted 1:2

