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

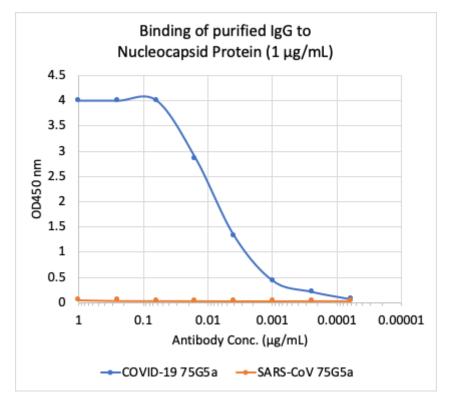
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Catalog: #2481 Store at: 2-8^oC

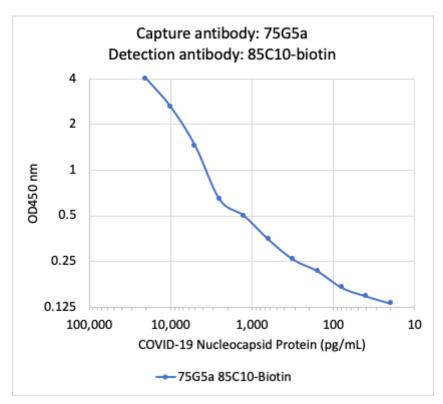
For Research Use Only. Not For Use In Diagnostic Procedures.

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:	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-ge develop recombinant rabbit mo sensitivity and specificity to SAI 75G5a (Abwiz Cat. #2481), 84C and 85C1 (Abwiz Cat. #2496) c used to detect nucleoprotein (N 84C4a, and 84D7 do not cross-rany other coronaviruses tested developer reliably detects NP are expected to be even higher who panel of antibodies can be used applied to lateral flow systems to	noclonal antibodies with ext RS-CoV-2. These antibodies, 4a (Abwiz Cat. #2486), 84D an be paired in sandwich de P) antigen from SARS-CoV-2 eact to the highly related SA Sandwich ELISA detection of thigen in the pg/mL range, a en using more sensitive deve as raw materials for diagno	which include clones of (Abwiz Cat. #2491), tection assay and and ARS-CoV virus or to using TMB/acid and sensitivity is eloper strategies. This ostic kits and can be
References:			

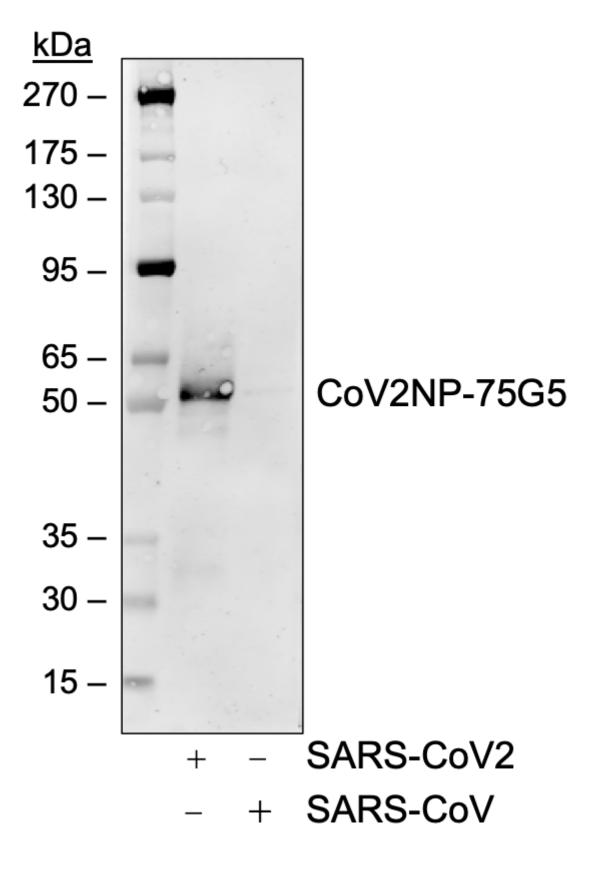




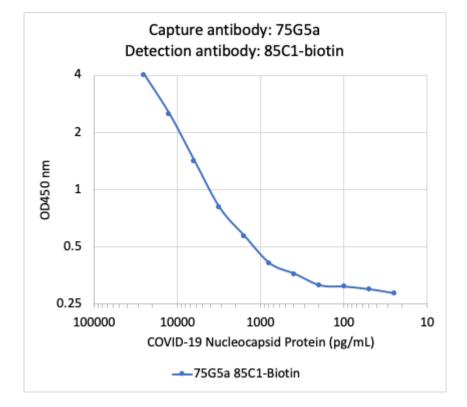
Microtiter wells were coated with SARS-CoV-2 (COVID-19) Nucleocapsid Protein (NP) and SARS-CoV NP at 1 ug/mL. Purified rabbit monoclonal antibody 75G5a (Cat# 2481) was serially diluted 1:2 starting at 1 ug/mL, and shows very strong and specific binding to



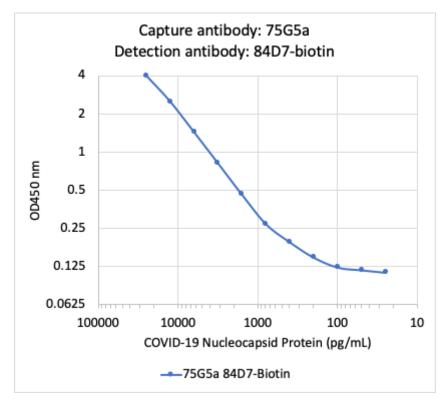
A sandwich ELISA was performed using SARS-CoV-2 (COVID-19) Nucleocapsid Protein (NP) specific rabbit monoclonal antibodies: 75G5a (Cat# 2481) as a capture antibody and 85C10-biotin (Cat# 2507) as a detection antibody. COVID-19 NP was serially diluted 1:2



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.



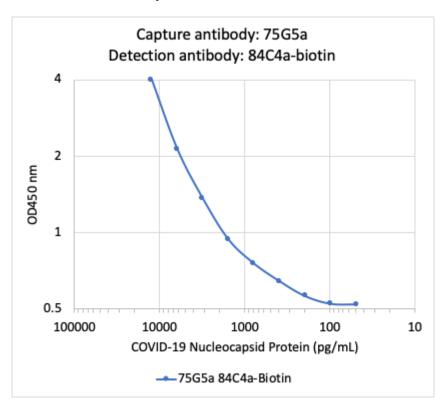
A sandwich ELISA was performed using SARS-CoV-2 (COVID-19) Nucleocapsid Protein (NP) specific rabbit monoclonal antibodies: 75G5a (Cat# 2481) as a capture antibody and 85C1-biotin (Cat# 2497) as a detection antibody. COVID-19 NP was serially diluted 1:2 s



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

