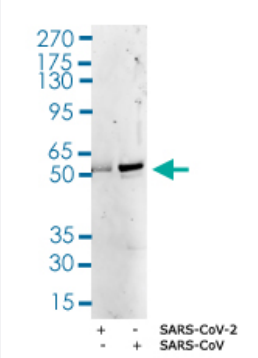
RecomAb™

SARS-CoV-2 N recombinant monoclonal antibody, clone 85C1

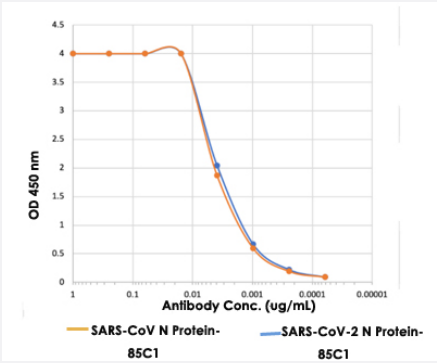
Catalog # RAB01059 Size 200 uL

Applications



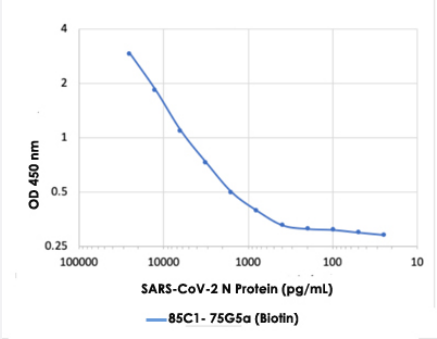
Western Blot (Recombinant protein)

Western blot analysis of N (SARS-CoV-2) Recombinant Protein (Cat # P6687) and SARS-CoV N Protein (50 ng) probed with 1 ug/mL SARS-CoV-2 N recombinant monoclonal antibody, clone 85C1 (Cat # RAB01059).



Enzyme-linked Immunoabsorbent Assay

Microtiter wells were coated with N (SARS-CoV-2) Recombinant Protein (Cat # P6687) and SARS-CoV N Protein at 1 ug/mL. Purified SARS-CoV-2 N recombinant monoclonal antibody, clone 85C1 (Cat # RAB01059) was serially diluted 1:2 starting at 1 ug/mL. SARS-CoV-2 N recombinant monoclonal antibody, clone 85C1 (Cat # RAB01059) show very strong and specific binding to both SARS-CoV N Protein antigen and to SARS-CoV-2 N Protein antigen.



Sandwich ELISA

A sandwich ELISA was performed using SARS-CoV-2 N recombinant monoclonal antibody, clone 85C1 (Cat # RAB01059) as a capture antibody and SARS-CoV-2 N recombinant monoclonal antibody, clone 75G5a (Biotin) (Cat # RAB01054) as a detection antibody. SARS-CoV-2 N Protein was serially diluted 1:2 starting at 25 ng/mL. SARS-CoV-2 N recombinant monoclonal antibody, clone 85C1 (Cat # RAB01059) and SARS-CoV-2 N recombinant monoclonal antibody, clone 75G5a (Biotin) (Cat # RAB01054) detected SARS-CoV-2 N Protein antigen at very high sensitivity as low as 25 pg/mL.

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Specification

Product Description	Rabbit recombinant monoclonal antibody raised against SARS-CoV-2 N.
Antibody Species	Rabbit
Immunogen	A synthetic peptide corresponding to C-terminus of SARS-CoV-2 N.
Reactivity	SARS-CoV, SARS-CoV-2
Specificity	Highly-sensitive to both SARS-CoV-2 and SARS-CoV nucleoprotein.
Form	Liquid
Preparation Method	85C1 is derived from a Fab phage display library made from a rabbit immunized with synthetic peptide specific to the C-terminus of SARS-CoV-2 nucleocapsid protein. Libraries were selected on N (SARS-CoV-2) Recombinant Protein (Cat # P6687) and Fab sup were screened on SARS-CoV-2 NP and SARS-CoV (2003) NP by ELISA. Positive clones were cloned into a bi-cistronic IgG vector and produced in HEK293 cells. The antibodies were purified from a Protein A column.
Purification	Protein A purification
Concentration	0.5 mg/mL
Isotype	IgG
Recommend Usage	ELISA The optimal working dilution should be determined by the end user.
Storage Buffer	In PBS (0.02% sodium azide)
Storage Instruction	Store at -20°C. Aliquot to avoid repeated freezing and thawing.
Note	75G5a (Cat # RAB01053), 84C4a (Cat # RAB01055), 84D7 (Cat # RAB01057), 85C1 (Cat # RAB01059), 85C10 (Cat # RAB01061), 85B4 (Cat # RAB01063), and 85E9 (Cat # RAB01065) can be directly coated to the ELISA wells as a capture antibody and the other antibody (e.g. biotinylated) [75G5a (Cat # RAB01054), 84C4a (Cat # RAB01056), 84D7 (Cat # RAB01058), 85C1 (Cat # RAB01060), 85C10 (Cat # RAB01062), 85B4 (Cat # RAB01064), and 85E9 (Cat # RAB01066)] can be used as a detecting antibody with StreptAvidin-HRP. For highest sensitivity, we recommend pairing unconjugated clone 75G5a (Cat # RAB01053), immobilized on the ELISA plate to capture COVID-19 NP antigen, with SARS-CoV-2 N recombinant monoclonal antibody, clone 85C10 (Biotin) (Cat # RAB01062) for detection using high-sensitivity streptavidin-HRP (Pierce #21130). This product contains sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.

Applications

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- Sandwich ELISA

A sandwich ELISA was performed using SARS-CoV-2 N recombinant monoclonal antibody, clone 85C1 (Cat # RAB01059) as a capture antibody and SARS-CoV-2 N recombinant monoclonal antibody, clone 75G5a (Biotin) (Cat # RAB01054) as a detection antibody. SARS-CoV-2 N Protein was serially diluted 1:2 starting at 25 ng/mL. SARS-CoV-2 N recombinant monoclonal antibody, clone 85C1 (Cat # RAB01059) and SARS-CoV-2 N recombinant monoclonal antibody, clone 75G5a (Biotin) (Cat # RAB01054) detected SARS-CoV-2 N Protein antigen at very high sensitivity as low as 25 pg/mL.

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