RecomAb™
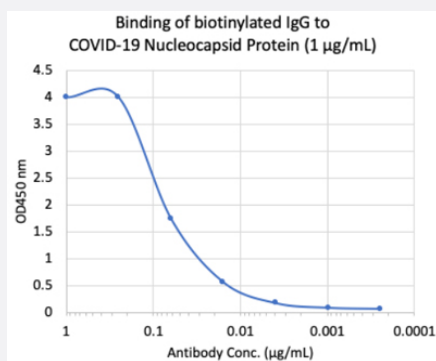
SARS-CoV-2 N recombinant monoclonal antibody, clone 85B4 (Biotin)

Catalog #   RAB01064   Size   200 uL

Applications

Binding of biotinylated IgG to COVID-19 Nucleocapsid Protein (1 μg/mL)

Enzyme-linked Immunoabsorbent Assay

Microtiter wells were coated with N (SARS-CoV-2) Recombinant Protein (Cat # P6687) at 1 ug/mL. SARS-CoV-2 N recombinant monoclonal antibody, clone 85B4 (Biotin) (Cat # RAB01064) was serially diluted 1:2 starting at 1 ug/mL, and shows high-sensitivity binding to COVID-19 NP antigen.

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-2
Specificity	Highly-specific to SARS-CoV-2 nucleoprotein; does not cross-react with nucleoprotein from SARS-CoV or other coronaviruses.
Form	Liquid
Conjugation	Biotin

Preparation Method	85B4 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 1x PBS (0.02% sodium azide)
Storage Instruction	Store at 4°C.
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

- Enzyme-linked Immunoabsorbent Assay

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