# SARS-CoV-2 Nucleoprotein (NP) (85E9) rabbit mAb

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**Catalog:** #2516 **Store at:** -20ºC

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

**Format:** Unconjugated

**Cross Reactivity:** Highly-sensitive to both SARS-CoV-2 and SARS-CoV nucleoprotein.

**Formulation:** 1X PBS, 0.02% NaN3

**Preparation:** Protein A

**Reactivity:** Other

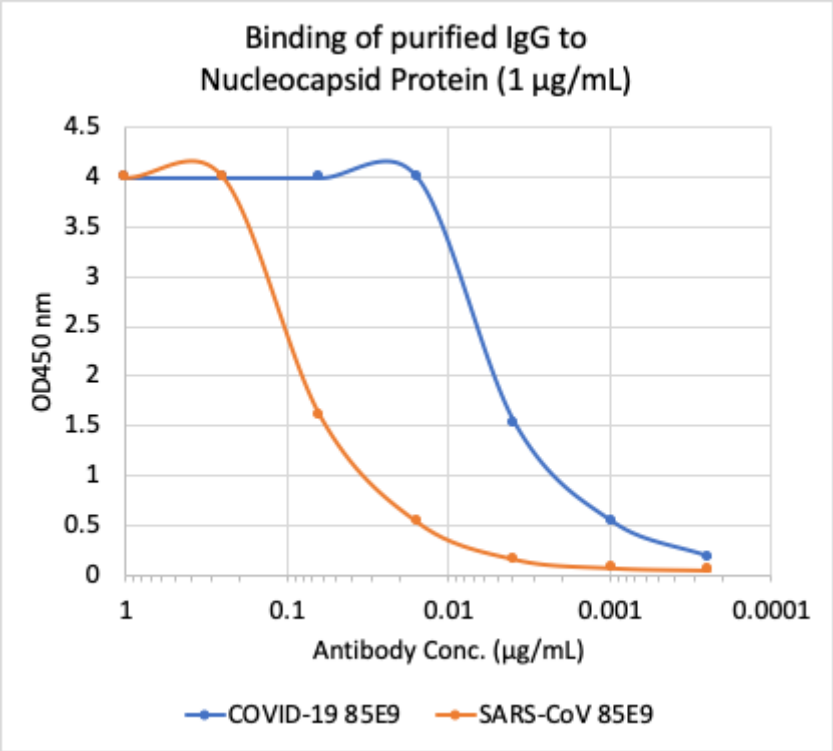
**Recommended Usage:** Used for specific, high-sensitivity detection of SARS-CoV-2 nucleocapsid protein (NP) in immunoassay. Can be paired with other NP-specific clones for detection in sandwich ELISA format.

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

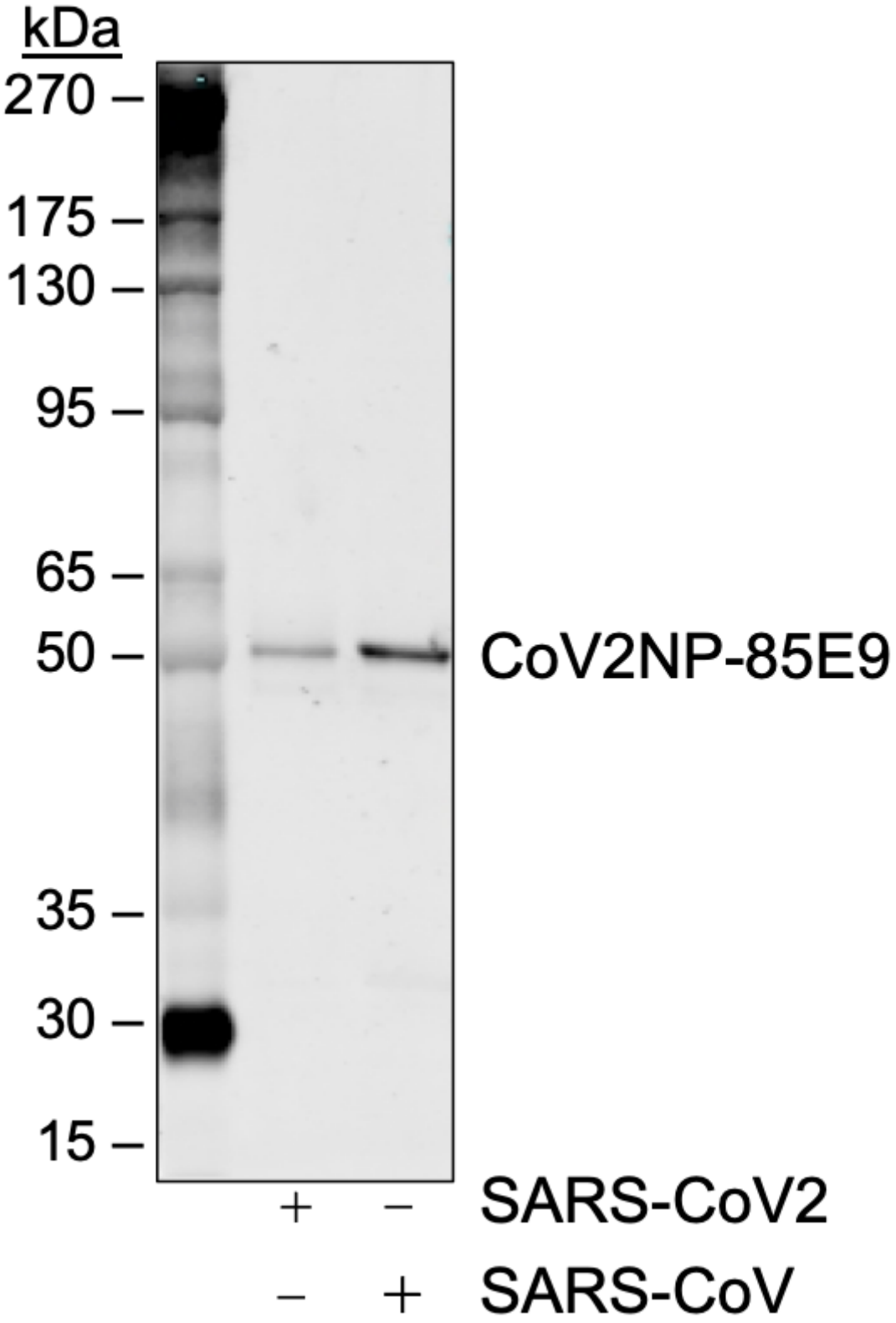
**Description:** We have leveraged our next-generation rabbit mAb discovery platform to develop recombinant rabbit monoclonal antibodies with extremely high sensitivity and specificity to SARS-CoV-2. These antibodies, which include clones 75G5a (Abwiz Cat. #2481), 84C4a (Abwiz Cat. #2486), 84D7 (Abwiz Cat. #2491), 85C1 (Abwiz Cat. #2496), 85C10 (Abwiz Cat. #2506), 85B4 (Abwiz Cat. #2511), and 85E9 (Abwiz Cat. #2516) can be paired in sandwich detection assay and used to detect nucleoprotein (NP) antigen from SARS-CoV-2. Antibodies 75G5a, 84C4a, 84D7, 85C10, and 85B4 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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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 85E9 (Cat# 2516) was serially diluted 1:2 starting at 1 ug/mL. Rabbit monoclonal antibody 85E9 shows very strong and specific binding to both COVID-19 NP antigen and recognizes SARS-CoV NP antigen.




Western blot analysis of SARS-CoV2 and SARS-CoV nucleocapsid protein (50 ng) probed with 1 ug/mL CoV2NP rabbit monoclonal antibody (85E9), CoV2NP-85E9. Cat. #2516.

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