## Anti-NP [JS08] Standard Size Ab03060-15.0

This antibody does not have a J-chain and therefore presents as a hexamer, rather than a pentamer.

This reformatted human antibody was made using the variable domain sequences of the original Human Fab format for improved compatibility with existing reagents assays and techniques.

Isotype and Format: Human IgM, Lambda
Clone Number: JS08
Alternative Name(s) of Target: N; Nucleoprotein; Nucleocapsid protein; NC; Protein N
UniProt Accession Number of Target Protein: PODTC9
Published Application(s): SPR, WB, ELISA
Published Species Reactivity: SARS-CoV-2
Immunogen: A combinatorial fragment of antigen-binding (Fab)antibody phage library based on peripheral blood-derived from five coronavirus disease 2019 (COVID-19) infected donors was constructed. The Fab antibody was obtained and identified by panning with purified NP.
Specificity: The antibody binds the nucleocapsid protein of SARS-CoV-2.
Application Notes: The specificity of the Fab and the IgG1 formats for SARS-CoV-2 NP was confirmed by ELISA analysis. The IgG1 antibody detected SARA-Cov-2 NP by western blot. Surface plasmon resonance assay was performed to evaluate the binding specificity and affinity between antibody and purified NP; the antibody showed a tight binding affinity to immobilized NP. The antibody was used as a detection antibody in sandwich ELISA, where it was used in a matched pair in conjunction with JS16, with the optimal detection limit below $0.78 \mathrm{ng} / \mathrm{mL}$. The epitope of the antibody was analyzed by competition ELISA (Zhang et al, 2020; pmid:33281824).
Antibody First Published in: Zhang et al. Development of Patient-Derived Human Monoclonal Antibodies Against Nucleocapsid Protein of Severe Acute Respiratory Syndrome Coronavirus 2 for Coronavirus Disease 2019 Diagnosis Front Immunol. 2020 Nov 13;11:595970. PMID:33281824
Note on publication: The paper describes the generation and characterization of the antibody, and its application for SARS-CoV-2 diagnosis.

## Product Form

Size: $50 \mu \mathrm{~g}$ Purified antibody.

## Purification:

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https://absoluteantibody.com/product/anti-np-js08/Ab03060-
15.0_human_igm/standard

Affinity Purified using a recombinant lectin column
Supplied In: PBS with 0.02\% Proclin 300.
Storage Recommendation: Store at $4^{\circ} \mathrm{C}$ for up to 3 months. For longer storage, aliquot and store at $20^{\circ} \mathrm{C}$.

Concentration: $1 \mathrm{mg} / \mathrm{ml}$.
Important note - This product is for research use only. It is not intended for use in therapeutic or diagnostic procedures for humans or animals.

