

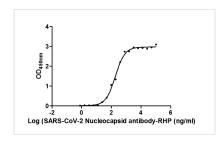




N Recombinant Monoclonal Antibody, HRP conjugated

Product Code	CSB-RA33255B1GMY
Storage	Upon receipt, store at -20°C or -80°C. Avoid repeated freeze.
Uniprot No.	P0DTC9
Immunogen	Recombinant Human Novel Coronavirus Nucleoprotein (N) (1-419aa) CSB-EP3325GMY
Species Reactivity	Human Novel Coronavirus (SARS-CoV-2/ 2019-nCoV)
Tested Applications	ELISA
Form	Liquid
Conjugate	HRP
Storage Buffer	Preservative: 0.03% Proclin 300 Constituents: 50% Glycerol, 0.01M PBS, pH 7.4
Purification Method	Affinity-chromatography
Isotype	Mouse scFv fusion with human IgG1 Fc
Clonality	Monoclonal
Alias	Nucleocapsid protein, NC, protein N, N
Immunogen Species	Human Novel Coronavirus (SARS-CoV-2/ 2019-nCoV)
Research Area	Microbiology
Gene Names	N (Nucleoprotein)
Clone No.	1A6

Image



The Binding Activity of SARS-CoV-2-N Antibody-N Antibody, HRP conjugated with SARS-CoV-2-

Activity: Measured by its binding ability in a functional ELISA. Immobilized SARS-CoV-2-N (CSB-EP3325GMY) at 2 µg/ml can bind SARS-CoV-2-N Antibody, HRP conjugated, the EC₅₀ is 188.35 ng/ml.

Description

The production of the N recombinant monoclonal antibody involves a systematic process to ensure its high quality and specific binding properties. The journey begins by isolating B cells from the spleen of an immunized animal, where the recombinant human SARS-CoV-2 N protein (1-419aa) is used as the immunogen. RNA is then extracted from these B cells and converted into cDNA through reverse transcription. The N antibody genes are amplified using specific primers designed for the antibody constant regions and cloned into an expression vector. The human IgG1 Fc is inserted into the vector, downstream



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of the N antibody gene and the HRP is also incorporated into the vector. This recombinant vector is introduced into host cells through transfection, allowing for the production of the N recombinant monoclonal antibody. After an appropriate incubation period, the antibody is collected from the cell culture supernatant and purified using affinity chromatography to ensure a highly pure form. The purified N recombinant monoclonal antibody is characterized using ELISA analysis to validate its specificity and functionality in detecting human SARS-CoV-2 N protein. Through this comprehensive production process, a reliable and effective N recombinant monoclonal antibody is generated, making it an invaluable tool for various SARS-CoV-2-associated research.