

Product Datasheet

SARS-CoV-2 Spike Antibody (CR3022) [Biotin] - Chimeric NBP2-90979B

Unit Size: 0.1 ml

Store at 4C in the dark.

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NBP2-90979B

SARS-CoV-2 Spike Antibody (CR3022) [Biotin] - Chimeric

Product Information	
Unit Size	0.1 ml
Concentration	Please see the vial label for concentration. If unlisted please contact technical services.
Storage	Store at 4C in the dark.
Clonality	Monoclonal
Clone	CR3022
Preservative	0.05% Sodium Azide
Isotype	IgG Kappa
Conjugate	Biotin
Purity	Protein A purified
Buffer	PBS
Product Description	
Host	Rabbit
Gene ID	43740568
Gene Symbol	S
Species	SARS-CoV-2, SARS-CoV
Reactivity Notes	SARS-CoV, SARS-CoV-2
Specificity/Sensitivity	This antibody binds to both SARS-CoV and SARS-CoV-2 with high affinity (PMID: 16796401 & 32065055). It binds the amino acids 318-510 in the S1 domain of the SARS-CoV Spike protein as well as SARS-CoV-2 (COVID-19) Spike protein. The antibody also binds to P462L-substituted S318-510 fragments of the SARS spike protein. The binding epitope is only accessible in the "open" conformation of the spike protein (Joyce et al. 2020). NBP2-90979 cross-reacts with spike protein of Omicron and Delta variants.
Immunogen	The original monoclonal antibody was generated through an scFv library derived from a peripheral blood lymphocytes of a patient exposed to the SARS-CoV.
Product Application Details	
Applications	ELISA, Immunocytochemistry/ Immunofluorescence, Neutralization, Surface Plasmon Resonance
Recommended Dilutions	ELISA, Immunocytochemistry/ Immunofluorescence, Surface Plasmon Resonance, Neutralization
Application Notes	Optimal dilution of this antibody should be experimentally determined.



Publications

Gagne M, Moliva JI, Foulds KE Et al. mRNA-1273 or mRNA-Omicron boost in vaccinated macaques elicits similar B cell expansion, neutralizing responses, and protection from Omicron Cell 2022-04-21 [PMID: 35447072]

Details:

Citation using the Biotin version of this antibody.

Gagne M, Corbett KS, Flynn BJ Et al. Protection from SARS-CoV-2 Delta one year after mRNA-1273 vaccination in rhesus macaques coincides with anamnestic antibody response in the lung Cell 2021-12-18 [PMID: 34921774]

Details:

Citation using the Biotin version of this antibody.





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Products Related to NBP2-90979B

NBP3-14666-100ug	SARS-CoV-2 Spike Recombinant Protein
10549-CV-100	SARS-CoV-2 Spike [Unconjugated]

Limitations

This product is for research use only and is not approved for use in humans or in clinical diagnosis. Primary Antibodies are guaranteed for 1 year from date of receipt.

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