Product Datasheet

SARS-CoV-2 Spike Antibody (CR3022) - Azide and BSA Free NBP3-11813

Unit Size: 50 ug

Store at 4C short term. Aliquot and store at -20C long term. Avoid freeze-thaw cycles.

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NBP3-11813

SARS-CoV-2 Spike Antibody (CR3022) - Azide and BSA Free

SARS-CoV-2 Spike Antibody (CR	3022) - Azide and BSA Free
Product Information	
Unit Size	50 ug
Concentration	1 mg/ml
Storage	Store at 4C short term. Aliquot and store at -20C long term. Avoid freeze-thaw cycles.
Clonality	Monoclonal
Clone	CR3022
Preservative	0.02% Proclin 300
Isotype	IgA1 Kappa
Purity	Affinity purified
Buffer	PBS
Product Description	
Description	This antibody does not have a J-chain. This reformatted human antibody was made using the variable domain sequences of the original Human IgG1 format, for improved compatibility with existing reagents, assays and techniques.
Host	Human
Gene ID	43740568
Gene Symbol	S
Species	SARS-CoV-2, SARS-CoV
Specificity/Sensitivity	This antibody 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" confromation of the spike protein.
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, X-Ray Crystallography
December ded Dilutions	ELICA Inspector on to the project of

	from a peripheral blood lymphocytes of a patient exposed to the SARS-Cov.
Product Application Details	
Applications	ELISA, Immunocytochemistry/ Immunofluorescence, Neutralization, Surface Plasmon Resonance, X-Ray Crystallography
Recommended Dilutions	ELISA, Immunocytochemistry/ Immunofluorescence, Surface Plasmon Resonance, Neutralization, X-Ray Crystallography

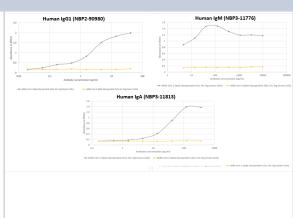


Application Notes

This antibody binds to both SARS-CoV and SARS-CoV-2 with high affinity. The initial characterization of the binding of this antibody was performed by ELISA and indicates potential for the development of diagnostic assays, as both virus-capture assays, or as controls in serological assays measuring immune-responses to virus exposure. Human IgG1, IgG3, IgM and IgA isotypes are available to mimic antibody responses seen in COVID19. Human IgG2 and IgG4 subtypes, which are also seen in a small subset of COVID-19 patients, are also available to investigate their role in the response to SARS-CoV-2. The original human IgG1 version of the antibody works synergistically in combination with another non-ompeting SARS antibody CR3014 and is a potential candidate for passive immune prophylaxis of SARS-CoV infection. The original antibody (human IgG1) was also reported to bind the 2019-nCoV RBD (KD of 6.3 nM). This antibody has been attributed a potential to be developed as a therapeutic agent, alone or in combination with other neutralizing antibodies for treatment of 2019-nCoV infections. This antibody was used in a immunofluorescence assay.

Images

ELISA: SARS-CoV-2 Spike Antibody (CR3022) - Azide and BSA Free [NBP2-90980] - ELISA plate coated with SARS-CoV-2 Spike Glycoprotein (S1), His-Tag (Insect Cells; grey line) and SARS-CoV-2 Spike Glycoprotein (S2), His-Tag (Insect Cells; yellow line) at concentrations of 5 ug/ml. A 3-fold serial dilution from 41.6 ng/ml was performed using NBP2-90980; from 370 ng/ml for NBP3-11813 and from 10000 ng/ml for NBP3-11776. Human IgM and human IgA were HRP-conjugated and for the detection of human IgG1 a 1:4000 dilution of HRP-labelled anti-human IgG antibody was used.



Publications

Aristo Vojdani, Elroy Vojdani, Ashley L Melgar, Joshua Redd Reaction of SARS-CoV-2 antibodies with other pathogens, vaccines, and food antigens. Frontiers in immunology 2022-10-11 [PMID: 36211404]





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G-102-C Goat anti-Human IgG Secondary Antibody [Unconjugated]

NB7446 Goat anti-Human IgG Fc Secondary Antibody

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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