

Product Datasheet

SARS-CoV-2 Spike Antibody (CR3022) - Azide and BSA Free NBP2-90980

Unit Size: 0.2 mg

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

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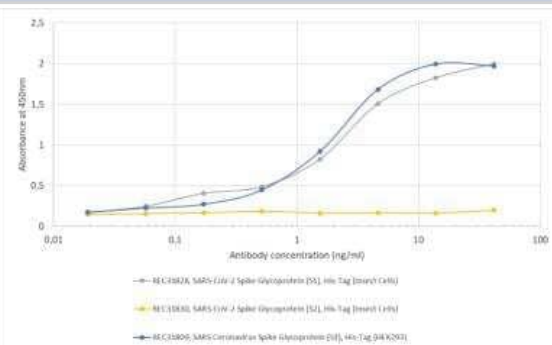


NBP2-90980**SARS-CoV-2 Spike Antibody (CR3022) - Azide and BSA Free**

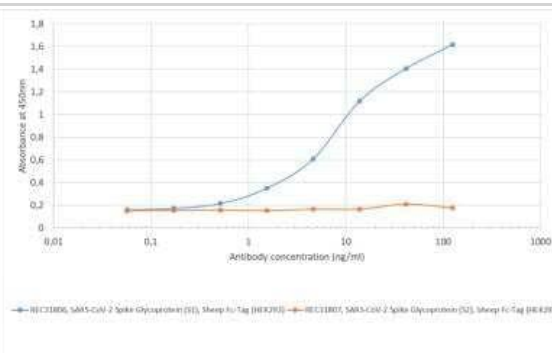
Product Information	
Unit Size	0.2 mg
Concentration	1 mg/ml
Storage	Store at 4C short term. Aliquot and store at -20C long term. Avoid freeze-thaw cycles.
Clonality	Monoclonal
Clone	CR3022
Preservative	0.02% Proclin 300
Isotype	IgG1 Kappa
Purity	Protein A purified
Buffer	PBS
Product Description	
Description	Novus Biologicals Human SARS-CoV-2 Spike Antibody (CR3022) - Azide and BSA Free (NBP2-90980) is a recombinant monoclonal antibody validated for use in ELISA and ICC/IF. Anti-SARS-CoV-2 Spike Antibody: Cited in 4 publications. All Novus Biologicals antibodies are covered by our 100% guarantee.
Host	Human
Gene ID	43740568
Gene Symbol	S
Species	SARS-CoV-2, SARS-CoV
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).
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

Images

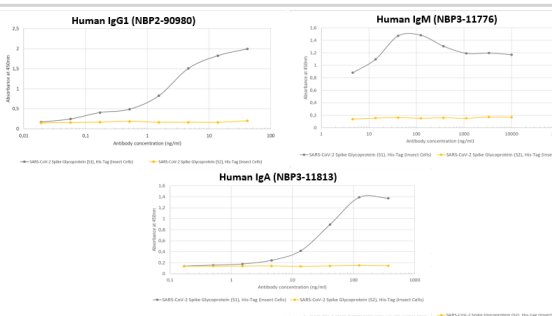
ELISA: SARS-CoV-2 Spike Antibody (CR3022) [NBP2-90980] - Binding curve of SARS-CoV-2 Spike Antibody (CR3022) to SARS-CoV-2 Spike Glycoprotein domains S1 and S2 of various origin. ELISA plate coated with SARS-CoV-2 Spike Glycoprotein (S1), His-Tag (Insect Cells; grey line), SARS-CoV-2 Spike Glycoprotein (S2), His-Tag (Insect Cells; yellow line) and SARS Coronavirus Spike Glycoprotein (S1), His-Tag (HEK293 cells; blue line) (Native Antigen) at concentrations of 5 ug/ml. A 3-fold serial dilution from 41.6 ng/ml was performed using SARS-CoV-2 Spike Antibody (CR3022). For detection, a 1:4000 dilution of HRP-labelled anti-human IgG antibody was used.



ELISA: SARS-CoV-2 Spike Antibody (CR3022) [NBP2-90980] - Binding curve of SARS-CoV-2 Spike Antibody (CR3022) to SARS-CoV-2 Spike Glycoprotein (S1), Sheep Fc-Tag and SARS-CoV-2 Spike Glycoprotein (S2), Sheep Fc-Tag from HEK293 cells. ELISA plate coated with SARS-CoV-2 Spike Glycoprotein (S1), Sheep Fc-Tag (blue line) or SARS-CoV-2 Spike Glycoprotein (S2), Sheep Fc-Tag (orange line) from HEK293 cells (Native Antigen) at concentrations of 5 ug/ml. A 3-fold serial dilution from 125 ng/ml was performed using SARS-CoV-2 Spike Antibody (CR3022). For detection, a 1:4000 dilution of HRP-labelled anti-human IgG antibody was used.



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

Courtney Voss, Sally Esmail, Xuguang Liu, Michael J. Knauer, Suzanne Ackloo, Tomonori Kaneko, Lori Lowes, Peter Stogios, Almagul Seitova, Ashley Hutchinson, Farhad Yusifov, Tatiana Skarina, Elena Evdokimova, Peter Loppnau, Pegah Ghiabi, Taraneh Haijan, Shanshan Zhong, Husam Abdoh, Benjamin D. Hedley, Vipin Bhayana, Claudio M. Martin, Marat Slessarev, Benjamin Chin-Yee, Douglas D. Fraser, Ian Chin-Yee, Shawn S.C. Li Epitope-specific antibody responses differentiate COVID-19 outcomes and variants of concern JCI Insight 2021-07-08 [PMID: 34081630]

Esmail S, Knauer M, Abdoh H et al. Rapid and accurate agglutination-based testing for SARS-CoV-2 antibodies Cell Rep Methods 2021-07-08 [PMID: 34235498]

Stauffer O, Gupta K, Hernandez BUcher JE et al. Synthetic virions reveal fatty acid-coupled adaptive immunogenicity of SARS-CoV-2 spike glycoprotein Nature communications 2022-02-14 [PMID: 35165285] (SARS-CoV-2)

Cai Q, Mu J, Lei Y et al. Simultaneous detection of the spike and nucleocapsid proteins from SARS-CoV-2 based on ultrasensitive single molecule assays Anal Bioanal Chem 2021-05-31 [PMID: 34057558]

Kaneko T, Esmail S, Voss C et al. System-wide hematopoietic and immune signaling aberrations in COVID-19 revealed by deep proteome and phosphoproteome analysis Research Square 2021-02-10 (MiAr)





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Products Related to NBP2-90980

G-102-C	Goat anti-Human IgG Secondary Antibody [Unconjugated]
NB7446	Goat anti-Human IgG Fc Secondary Antibody
NBP3-06872-0.1mg	Human IgG1 Kappa Isotype Control
NBP3-14666-100ug	SARS-CoV-2 Spike Recombinant Protein

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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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