Product Datasheet

SARS Spike Protein Antibody - BSA Free
NB100-56578SS

Unit Size: 0.025 mg

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

Reviews: 1 Publications: 37

Protocols, Publications, Related Products, Reviews, Research Tools and Images at:
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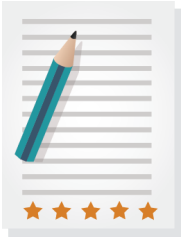
Updated 4/13/2025 v.20.1



NB100-56578SS

SARS Spike Protein Antibody - BSA Free

Product Information

Unit Size	0.025 mg
Concentration	1.0 mg/ml
Storage	Store at 4C short term. Aliquot and store at -20C long term. Avoid freeze-thaw cycles.
Clonality	Polyclonal
Preservative	0.02% Sodium Azide
Isotype	IgG
Purity	Immunogen affinity purified
Buffer	PBS

Product Description

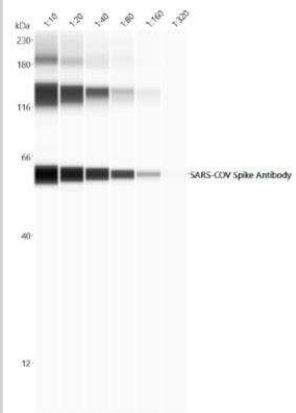
Host	Rabbit
Species	SARS-CoV, SARS-CoV-2
Specificity/Sensitivity	Full length Spike protein transfected into UM92 cells was used as a positive control and an approximate 139 kDa band was observed. Dot Blot results using recombinant proteins for cross-reactivity testing revealed high reactivity to SARS-CoV-2 Spike Protein, 1000-1200 a.a. (NBP2-90973) and low/no reactivity towards MERS Spike 2 or H1N1 (NBP1-99041).
Immunogen	The antibody was developed by immunizing rabbits with a synthetic peptide corresponding to amino acids 1124-1140 (C-GNCDVVIGIVNNTVYDP) from the S (Spike glycoprotein)(Spike protein S2') for the Human SARS coronavirus (Genbank accession no. YP_009724390)

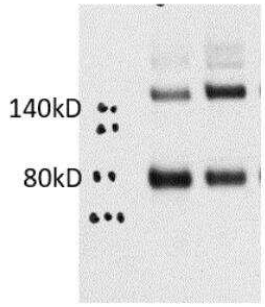
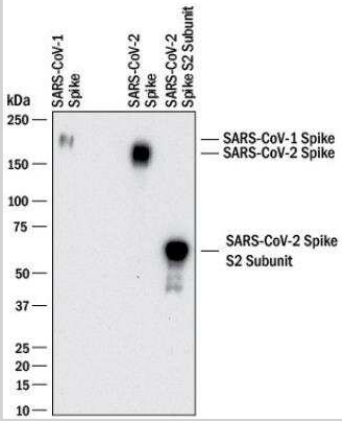
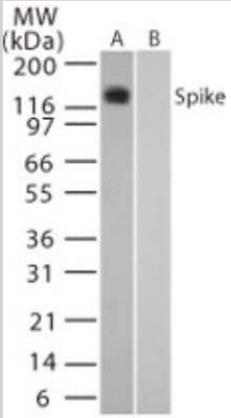
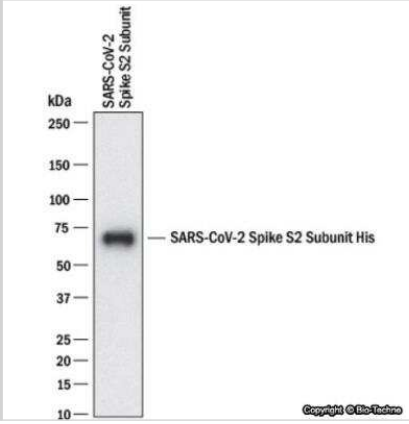
Product Application Details

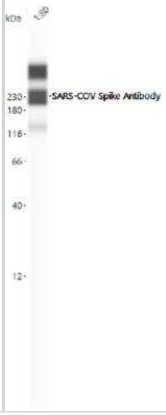
Applications	Western Blot, Simple Western, Immunocytochemistry/ Immunofluorescence, Immunohistochemistry
Recommended Dilutions	Western Blot 0.05 - 1.0 ug/mL, Simple Western 1:40 - 1:160, Immunohistochemistry reported in scientific literature (PMID 34357881), Immunocytochemistry/ Immunofluorescence reported in scientific literature (PMID 16081529)

Images

Simple Western lane view shows recombinant SARS-CoV-2 Spike S2 Protein, loaded at 50 ng/mL. A specific band was detected for SARS-CoV-2 Spike S2 Protein at approximately 58 kDa (as indicated) using a serial dilution of Rabbit Anti-SARS-CoV Spike Protein Polyclonal Antibody (Catalog # NB100-56578) followed by incubation with HRP-conjugated Anti-Rabbit IgG Secondary Antibody. This experiment was conducted under reducing conditions and using the 12-230 kDa separation system.



SARS-CoV-2 spike overexpressed 293T cell lysate. Antibody dilution: 1:3000. Two bands for full length spike and cleaved S2 are shown, respectively. Western blot image submitted by a verified customer review.	
Western blot shows SARS-CoV-1 Spike (Catalog # 10581-CV), SARS CoV-2 Spike (Catalog # 10586-CV), SArS-CoV-2 Spike S2 Subunit (Catalog # 10584-CV). Membrane was probed with 0.5 ug/mL of SARS Spike Protein Antibody (Catalog # NB100-56578) followed by HRP-conjugated Anti-Rabbit IgG Secondary Antibody (Catalog # HAF008). A specific band was detected for SARS-CoV-2 Spike S2 Subunit at approximately 70 kDa (as indicated). This experiment was conducted under reducing conditions and using Immunoblot Buffer Group 1. Internally validated Western blot.	
Western blot analysis of SARS Spike Protein in (A) transfected and (B) untransfected mouse melanoma cell lysate.	
Western blot shows recombinant protein SARS-CoV-2 Spike S2 Subunit. Membrane was probed with 0.5 ug/mL of Rabbit Anti-SARS Spike Protein Polyclonal Antibody (Catalog # NB100-56578) followed by HRP-conjugated Anti-Rabbit IgG Secondary Antibody (Catalog # HAF008). A specific band was detected for SARS-CoV-2 Spike S2 Subunit at approximately 70 kDa (as indicated). This experiment was conducted under reducing conditions and using Immunoblot Buffer Group 1. Internally validated Western blot.	

Simple Western lane view shows SARS-CoV-2 lysate, loaded at 1:20 dilution. SARS-CoV-2 Spike Protein was detected using 6.25 ug/mL of Rabbit Anti-SARS-CoV Spike Protein Polyclonal Antibody (Catalog # NB100-56578) followed by incubation with HRP-conjugated Anti-Rabbit IgG Secondary Antibody. This experiment was conducted under reducing conditions and using the 12-230 kDa separation system. SARS-CoV-2 lysate courtesy of University of Maryland.	

Publications

Zhang Y, Anbir S, McTiernan J et Al. Synthesis, insertion, and characterization of SARS-CoV-2 membrane protein within lipid bilayers Sci Adv 2024-03-01 [PMID: 38416838]

Cone AS, Zhou Y, McNamara RP et Al. CD81 fusion alters SARS-CoV-2 Spike trafficking mBio 2024-09-01 [PMID: 39140770]

Hirabayashi A, Muramoto Y, Takenaga T et Al. Coatomer complex I is required for the transport of SARS-CoV-2 progeny virions from the endoplasmic reticulum-Golgi intermediate compartment mBio 2024-11-29 [PMID: 39611845]

Tomokazu Tamura, Keita Mizuma, Hesham Nasser, Sayaka Deguchi, Miguel Padilla-Blanco, Yoshitaka Oda, Keiya Uriu, Jarel E M Tolentino, Shuhei Tsujino, Rigel Suzuki, Isshu Kojima, Naganori Nao, Ryo Shimizu, Lei Wang, Masumi Tsuda, Michael Jonathan, Yusuke Kosugi, Ziyi Guo, Alfredo A Hinay, Olivia Putri, Yoonjin Kim, Yuri L Tanaka, Hiroyuki Asakura, Mami Nagashima, Kenji Sadamasu, Kazuhisa Yoshimura, Akatsuki Saito, Jumpei Ito, Takashi Irie, Shinya Tanaka, Jiri Zahradnik, Terumasa Ikeda, Kazuo Takayama, Keita Matsuno, Takasuke Fukuhara, Kei Sato Virological characteristics of the SARS-CoV-2 BA.2.86 variant. Cell host & microbe 2024-02-19 [PMID: 38280382]

E Rosendal, IS Mihai, M Becker, D Das, L Frängsmyr, BD Persson, GD Rankin, R Gröning, J Trygg, M Forsell, J Ankarklev, A Blomberg, J Henriksson, AK Överby, A Lenman Serine Protease Inhibitors Restrict Host Susceptibility to SARS-CoV-2 Infections MBio, 2022-05-09;0(0):e0089222. 2022-05-09 [PMID: 35532162]

Shengliang Zhang, Wafik S. El-Deiry Transfected SARS-CoV-2 spike DNA for mammalian cell expression inhibits p53 activation of p21(WAF1), TRAIL Death Receptor DR5 and MDM2 proteins in cancer cells and increases cancer cell viability after chemotherapy exposure Oncotarget 2024-01-01 [PMID: 38709242]

Zhang Y, Anbir S, McTiernan J et al. Synthesis, Insertion, and Characterization of SARS-CoV-2 Membrane Protein Within Lipid Bilayers bioRxiv 2023-10-02 (WB)

Details:
Dilution 1:1000

Eens S, Van Hecke M, Favere K et al. B-cell lymphoblastic lymphoma following intravenous BNT162b2 mRNA booster in a BALB/c mouse: A case report Frontiers in Oncology 2023-05-01 [PMID: 37197431]

Johnson BA, Xie X, Bailey AL et al. Loss of furin cleavage site attenuates SARS-CoV-2 pathogenesis Nature 2021-03-11 [PMID: 33494095]

Vu MN, Lokugamage KG, Plante JA et al. QTQTN motif upstream of the furin-cleavage site plays a key role in SARS-CoV-2 infection and pathogenesis Proceedings of the National Academy of Sciences 2022-08-09 [PMID: 35881779] (Western Blot)

Kugathasan R, Sukhova K, Moshe M et al. Deep mutagenesis scanning using whole trimeric SARS-CoV-2 spike highlights the importance of NTD-RBD interactions in determining spike phenotype PLOS Pathogens 2023-08-03 [PMID: 37535672] (Western Blot)

Reuter N, Chen X, Kropff B et al. SARS-CoV-2 Spike Protein Is Capable of Inducing Cell-Cell Fusions Independent from Its Receptor ACE2 and This Activity Can Be Impaired by Furin Inhibitors or a Subset of Monoclonal Antibodies Viruses 2023-07-04 [PMID: 37515187] (Western Blot, Immunocytochemistry/ Immunofluorescence)

More publications at http://www.novusbio.com/NB100-56578

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