Product Datasheet

SARS Spike Protein Antibody - BSA Free
NB100-56047

Unit Size: 0.1 mg

Aliquot and store at -20C or -80C. Avoid freeze-thaw cycles.

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Publications: 13

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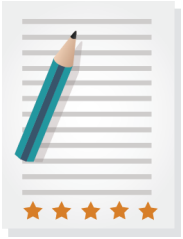


NB100-56047

SARS Spike Protein Antibody - BSA Free

Product Information

Unit Size	0.1 mg
Concentration	0.5 mg/ml
Storage	Aliquot and store at -20C or -80C. Avoid freeze-thaw cycles.
Clonality	Polyclonal
Preservative	0.05% Sodium Azide
Isotype	IgG
Purity	Protein G purified
Buffer	PBS containing 0.2% gelatin

Product Description

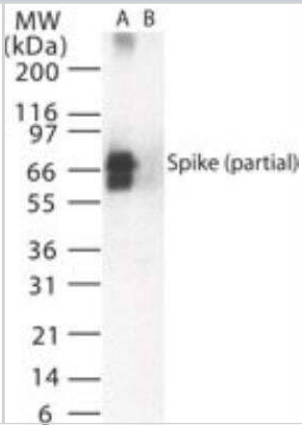
Host	Rabbit
Species	SARS-CoV
Specificity/Sensitivity	The antibody was tested on a cell line transfected with a partial-length cDNA coding for the N-terminal portion of SARS Spike protein with a predicted molecular weight of 68 kDa.
Immunogen	The antibody was developed by immunizing rabbits with a synthetic peptide corresponding to amino acids 19-35 (CTTFDDVQAPNYTQHTS) from the S (Spike glycoprotein)(Spike Protein 1) for the Human SARS coronavirus (Genbank accession no. NP_828851.1)

Product Application Details

Applications	Western Blot, ELISA
Recommended Dilutions	Western Blot 0.5-2 ug/ml, ELISA 0.5-2 ug/ml

Images

Western Blot: Sars Spike Protein Antibody [NB100-56047] - Analysis of SARS Spike in (A) transfected mouse melanoma cell lysate and (B) untransfected cell lysate using this antibody. 5 ug/ml.



Publications

Khan, I;Li, S;Tao, L;Wang, C;Ye, B;Li, H;Liu, X;Ahmad, I;Su, W;Zhong, G;Wen, Z;Wang, J;Hua, RH;Ma, A;Liang, J;Wan, XP;Bu, ZG;Zheng, YH; Tubeimosides are pan-coronavirus and filovirus inhibitors that can block their fusion protein binding to Niemann-Pick C1 Nature communications 2024-01-02 [PMID: 38167417]

Cameron A, Porterfield CA, Byron LD et al. A Multiplex Microsphere IgG Assay for SARS-CoV-2 Using ACE2-Mediated Inhibition as a Surrogate for Neutralization Journal of Clinical Microbiology 2021-01-21 [PMID: 33139422]

Wang B, Zhang J, Liu X et al. Protein disulfide isomerases (PDIs) negatively regulate ebolavirus structural glycoprotein expression in the endoplasmic reticulum (ER) via the autophagy-lysosomal pathway Autophagy 2022-02-07 [PMID: 35130104]

Lokugamage Kumari G, Yoshikawa-Iwata Naoko, Ito Naoto et al. Chimeric coronavirus-like particles carrying severe acute respiratory syndrome coronavirus (SCoV) S protein protect mice against challenge with SCoV. Vaccine. 2008-02-06 [PMID: 18191004] (WB)

Bisht Himani, Roberts Anjeanette, Vogel Leatrice et al. Severe acute respiratory syndrome coronavirus spike protein expressed by attenuated vaccinia virus protectively immunizes mice. Proc Natl Acad Sci U S A. 2004-04-27 [PMID: 15096611] (WB)

Narayanan K, Ramirez Si, Lokugamage Kg et al. Coronavirus nonstructural protein 1: Common and distinct functions in the regulation of host and viral gene expression Virus Res. 2014-11-26 [PMID: 25432065] (WB)

Details:
Sars Spike Protein antibody used for WB on Vero E6 cells which were either mock-infected (Mock) or infected with wt SARS-CoV (WT) or SARS-CoV-mt (mt), carrying the mutations K164A and H165A in nsp1, at an MOI of 5.

Yang ZY, Werner HC, Kong WP et al. Evasion of antibody neutralization in emerging severe acute respiratory syndrome coronaviruses. Proc Natl Acad Sci U S A. 2005-01-18 [PMID: 15642942]

Huang C, Narayanan K, Ito N et al. Severe acute respiratory syndrome coronavirus 3a protein is released in membranous structures from 3a protein-expressing cells and infected cells. J Virol. 2006-01-01 [PMID: 16352545]

Huang C, Peters CJ, Makino S. Severe acute respiratory syndrome coronavirus accessory protein 6 is a virion-associated protein and is released from 6 protein-expressing cells. J Virol. 2007-05-01 [PMID: 17344286] (WB)

Details:
SARS-Spike Protein (IMG-541) [WB, Fig1 (viral model)].

Huang C, Ito N, Tseng CT, Makino S. Severe acute respiratory syndrome coronavirus 7a accessory protein is a viral structural protein. J Virol. 2006-08-01 [PMID: 16840309]

Bisht H, Roberts A, Vogel L et al. Neutralizing antibody and protective immunity to SARS coronavirus infection of mice induced by a soluble recombinant polypeptide containing an N-terminal segment of the spike glycoprotein. Virology. 2005-04-10 [PMID: 15780866]

Ho Y, Lin PH, Liu CY et al. Assembly of human severe acute respiratory syndrome coronavirus-like particles. Biochem Biophys Res Commun. 2004-06-11 [PMID: 15147946]

More publications at http://www.novusbio.com/NB100-56047

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Products Related to NB100-56047

HAF008	Goat anti-Rabbit IgG Secondary Antibody [HRP]
NB7160	Goat anti-Rabbit IgG (H+L) Secondary Antibody [HRP]
NBP2-24891	Rabbit IgG Isotype Control
NB100-56047PEP	SARS Spike Protein Antibody Blocking Peptide

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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