

Product Datasheet

ACE-2 Antibody (AC384) - Azide and BSA Free NBP2-80038-100ug

Unit Size: 100 ug

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

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NBP2-80038-100ug

ACE-2 Antibody (AC384) - Azide and BSA Free

Product Information	
Unit Size	100 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	AC384
Preservative	No Preservative
Isotype	IgG1 Kappa
Purity	Protein G purified
Buffer	0.2 um-filtered solution in PBS, pH 7.4

Product Description	
Description	Novus Biologicals Mouse ACE-2 Antibody (AC384) - Azide and BSA Free (NBP2-80038) is a monoclonal antibody validated for use in WB, ELISA and Flow. Anti-ACE-2 Antibody: Cited in 6 publications. All Novus Biologicals antibodies are covered by our 100% guarantee.
Host	Mouse
Gene ID	59272
Gene Symbol	ACE2
Species	Human
Immunogen	Recombinant human ACE-2.

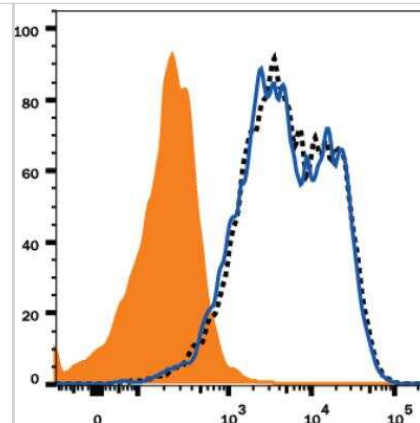
Product Application Details	
Applications	Western Blot, ELISA, Flow Cytometry
Recommended Dilutions	Western Blot 1:2000-1:10000, Flow Cytometry, ELISA 1:2000-1:1000
Application Notes	Use in Flow reported in scientific literature (PMID:34538015).

Images

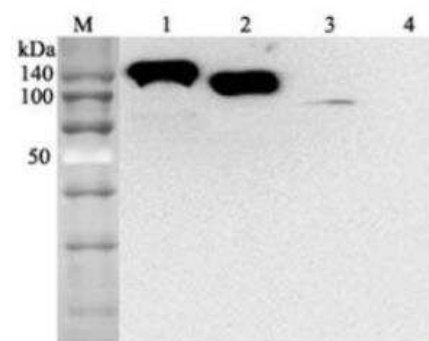
Block/Neutralize: ACE-2 Antibody (AC384) [NBP2-80038] - In a functional flow cytometry assay using a HEK293 human embryonic kidney cell line transfected with human ACE-2, 1ug/mL Fc-tagged recombinant human Spike S1 subunit RBD is shown to bind Ace-2 (black dotted line) detected by Human IgG Fc-APC Secondary Antibody (FAB110A). Binding is completely blocked (orange histogram) by 25 ug/mL of Mouse Anti-Human ACE-2 Monoclonal Antibody (NBP2-80038). 25 ug/mL Mouse Anti-Human DC-SIGN/CD209 Monoclonal Antibody (MAB161) was used as an irrelevant control (blue line).



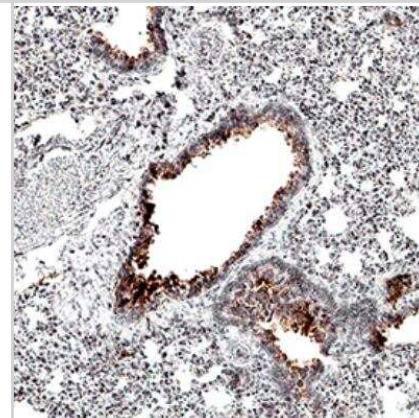
Block/Neutralize: ACE-2 Antibody (AC384) [NBP2-80038] - In a functional flow cytometry assay using a HEK293 human embryonic kidney cell line transfected with human ACE-2, 0.5 ug/mL sheep Fc-tagged recombinant human Spike S1 is shown to bind ACE-2 (black dotted line) detected by Donkey anti-Sheep APC Secondary Antibody (Catalog # F0127). Binding is completely blocked (orange histogram) by 25 ug/mL of Mouse Anti-Human ACE-2 Monoclonal Antibody (NBP2-80038). 25 ug/mL Mouse anti-Human DC-SIGN/CD209 Monoclonal Antibody (MAB161) was used as an irrelevant control (blue line).



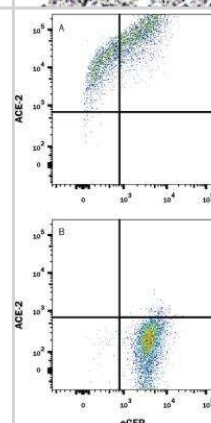
Western Blot: ACE-2 Antibody (AC384) [NBP2-80038] - 1: Human ACE2 Fc-fusion protein. 2: Human ACE2 (Ecto domain) (FLAG®-tagged). 3: HepG2 cell lysate. 4: Other Fc-fusion (hGITR-Fc) proteins (negative control). 1:2'000 dilution.



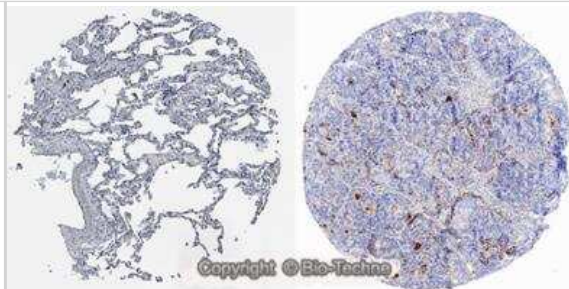
Immunohistochemistry-Paraffin: ACE-2 Antibody (AC384) [NBP2-80038] - ACE-2 staining in paraffin-embedded sections of hamster lung tissue using Mouse Anti-Human ACE-2 (AC384) Monoclonal Antibody (Catalog # NBP2-80038) at 10 ug/ml overnight at 4 degrees C. Detection kit: VC001. Counterstain: Hematoxylin. Localization: respiratory bronchioles.



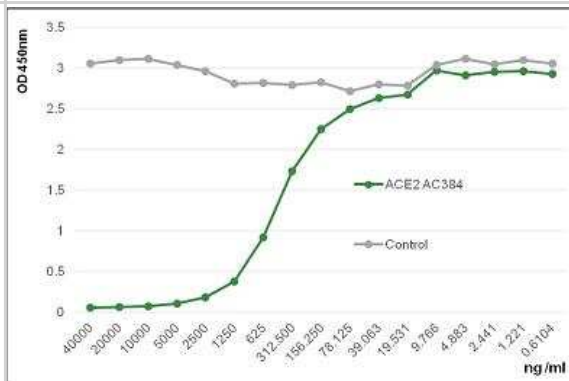
Flow Cytometry: ACE-2 Antibody (AC384) [NBP2-80038] - Detection of ACE-2 in HEK293 Human Cell Line Transfected with Human ACE-2 and eGFP by Flow Cytometry. HEK293 human embryonic kidney cell line transfected with (A) human ACE-2 or (B) irrelevant protein, and eGFP was stained with Mouse Anti-Human ACE-2 Monoclonal Antibody (Catalog # NBP2-80038) followed by Allophycocyanin-conjugated Anti-Mouse IgG Secondary Antibody (Catalog # F0101B). Quadrant markers were set based on Mouse IgG1 control antibody staining (Catalog # MAB002, data not shown). View our protocol for Staining Membrane-associated Proteins.



Immunohistochemistry-Paraffin: ACE-2 Antibody (AC384) [NBP2-80038]
 - ACE-2 was detected in immersion fixed paraffin-embedded sections of human lung normal (left) and lung cancer tissue (right) using Mouse Anti-HumanACE-2 (AC18F) Monoclonal Antibody (Catalog # NBP2-80038) at 15ug/mL for 1 hour at room temperature followed by incubation with the Goat anti-Mouse IgG Secondary Antibody.



Functional: ACE-2 Antibody (AC384) [NBP2-80038] - Binding of ACE2 (human) to the Spike protein of SARS-CoV-2 is inhibited by the antibody anti-ACE2 (human), mAb (blocking) (AC384). Spike (SARS-CoV-2):Fc (human) (RBD) (rec.) is coated on an ELISA plate at 1ug/ml. ACE2 (human), mAb (blocking) (AC384) or an unrelated mAb Control are added (starting at 40 ug/mL with a two-fold serial dilution) together with 500 ng/uL of ACE2 (human). After incubation for 1h at RT, the binding was detected using an anti-FLAG antibody (HRP).



Publications

Fu L, Gilham D, Stotz SC et al. Dual mechanism: Epigenetic inhibitor apabetalone reduces SARS-CoV-2 Delta and Omicron variant spike binding and attenuates SARS-CoV-2 RNA induced inflammation International Immunopharmacology 2023-04-01 [PMID: 36857935] (B/N, Human)

MacGowan SA, Barton MI, Kutuzov M et al. Missense variants in human ACE2 strongly affect binding to SARS-CoV-2 Spike providing a mechanism for ACE2 mediated genetic risk in Covid-19: A case study in affinity predictions of interface variants PLoS computational biology 2022-03-01 [PMID: 35235558]

van der Sluis RM, Cham LB, Gris-Oliver A et al. TLR2 and TLR7 mediate distinct immunopathological and antiviral plasmacytoid dendritic cell responses to SARS-CoV-2 infection The EMBO journal 2022-02-17 [PMID: 35178710] (FLOW, Human)

Carter-Timofte ME, Arulanandam R, Kurmasheva N Et al. Antiviral Potential of the Antimicrobial Drug Atovaquone against SARS-CoV-2 and Emerging Variants of Concern ACS infectious diseases 2021-10-18 [PMID: 34658235] (FLOW, Human)

Barrett TJ, Bilaloglu S, Cornwell M et al. Platelets contribute to disease severity in COVID-19 Journal of thrombosis and haemostasis : JTH 2021-09-19 [PMID: 34538015] (FLOW, Human)

Macgowan S, Barton M, Kutuzov M et al. Missense variants in human ACE2 modify binding to SARS-CoV-2 Spike 2021-05-21

Tada T, Fan C, Kaur R et al. A Soluble ACE2 Microbody Protein Fused to a Single Immunoglobulin Fc Domain is a Potent Inhibitor of SARS-CoV-2 Infection Cell Rep 2020-12-16 [PMID: 33326798] (Human)



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Products Related to NBP2-80038-100ug

NBP2-33376H	Blue Marker Antibody (6F4-F6) [HRP]
HAF007	Goat anti-Mouse IgG Secondary Antibody [HRP]
NB7539	Goat anti-Mouse IgG (H+L) Secondary Antibody [HRP]
NBP1-43319-0.5mg	Mouse IgG1 Kappa Isotype Control (P3.6.2.8.1)

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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