

# Product Datasheet

## ACE-2 Antibody (SN0754)

### NBP2-67692

Unit Size: 100 ul

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

[www.novusbio.com](http://www.novusbio.com)



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#### Publications: 21

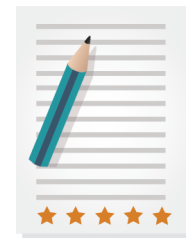
Protocols, Publications, Related Products, Reviews, Research Tools and Images at:  
[www.novusbio.com/NBP2-67692](http://www.novusbio.com/NBP2-67692)

Updated 10/23/2024 v.20.1

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**NBP2-67692**

ACE-2 Antibody (SN0754)

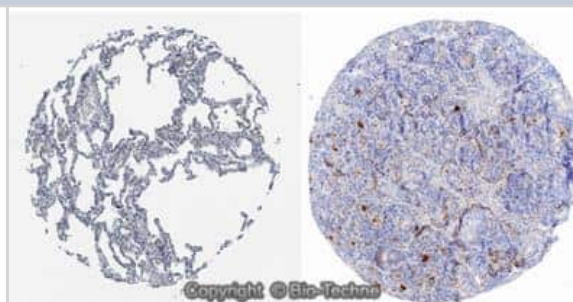
Product Information	
Unit Size	100 ul
Concentration	1 mg/ml
Storage	Store at 4C short term. Aliquot and store at -20C long term. Avoid freeze-thaw cycles.
Clonality	Monoclonal
Clone	SN0754
Preservative	0.05% Sodium Azide
Isotype	IgG
Purity	Protein A purified
Buffer	TBS (pH7.4), 0.05% BSA, 40% Glycerol

Product Description	
Host	Rabbit
Gene ID	59272
Gene Symbol	ACE2
Species	Human, Mouse, Rat, Hamster
Immunogen	Synthetic peptide within Human ACE-2 aa 181-230 / 805. (SwissProt: Q9BYF1 Human; SwissProt: Q8R0I0 Mouse; SwissProt: Q5EGZ1 Rat; SwissProt: A0A1U7QTA1 Hamster)

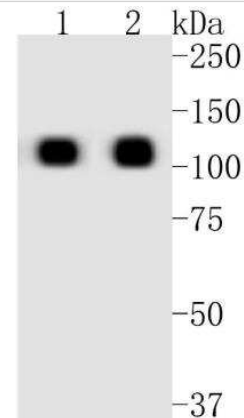
Product Application Details	
Applications	Western Blot, Immunocytochemistry/ Immunofluorescence, Immunohistochemistry, Immunohistochemistry-Frozen, Immunohistochemistry-Paraffin, Immunoprecipitation
Recommended Dilutions	Western Blot 1:1000-1:5000, Immunohistochemistry, Immunocytochemistry/ Immunofluorescence 1:100-1:500, Immunoprecipitation Use at an assay dependent concentration, Immunohistochemistry-Paraffin 1:50-1:200, Immunohistochemistry-Frozen Reported in scientific literature (PMID:35891560)

**Images**

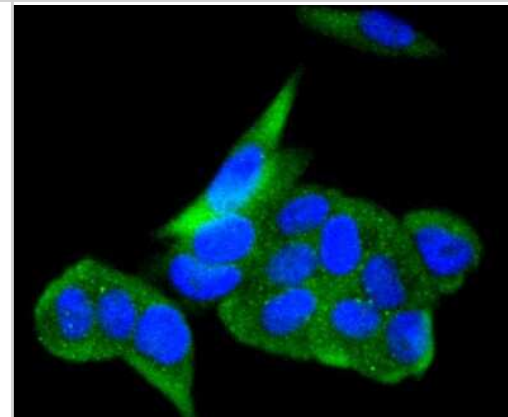
Immunohistochemistry-Paraffin: ACE-2 Antibody (SN0754) [NBP2-67692] - ACE-2 staining in immersion fixed paraffin-embedded sections of human lung normal (left) and lung cancer tissue (right) using Mouse Anti-Human ACE-2 (SN0754) Monoclonal Antibody (Catalog # NBP2-67692) at 10 ug/ml for 1 hour at room temperature followed by incubation with Goat anti-Mouse IgG Secondary Antibody.



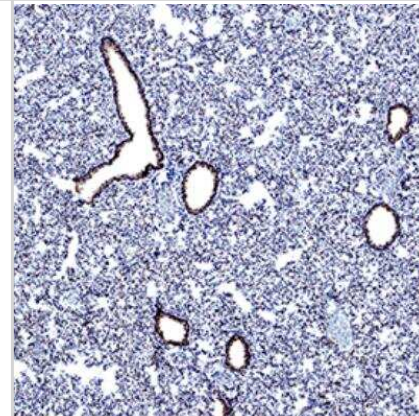
Western Blot: ACE-2 Antibody (SN0754) [NBP2-67692] - Analysis of ACE2 on different lysates. Proteins were transferred to a PVDF membrane and blocked with 5% BSA in PBS for 1 hour at room temperature. The primary antibody (1/500) was used in 5% BSA at room temperature for 2 hours. Goat Anti-Rabbit IgG - HRP Secondary Antibody at 1:5,000 dilution was used for 1 hour at room temperature. Positive control: Lane 1: human kidney tissue lysate Lane 2: human small intestine tissue lysate



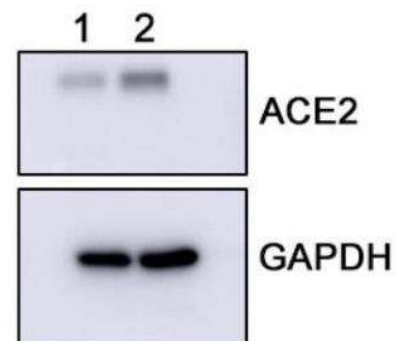
Immunocytochemistry/Immunofluorescence: ACE-2 Antibody (SN0754) [NBP2-67692] - Staining ACE2 in MCF-7 cells (green). The nuclear counter stain is DAPI (blue). Cells were fixed in paraformaldehyde, permeabilised with 0.25% Triton X100/PBS.



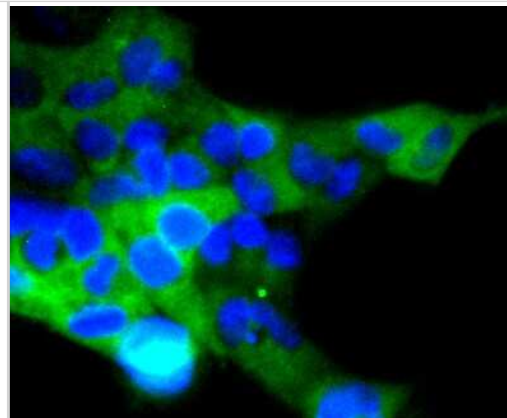
Immunohistochemistry-Paraffin: ACE-2 Antibody (SN0754) [NBP2-67692] - ACE-2 staining in paraffin-embedded sections of hamster lung tissue using Rabbit Anti-Human ACE-2 (SN0754) Monoclonal Antibody (Catalog # NBP2-67692) at 3 ug/ml overnight at 4 degrees C. Detection kit: VC003. Counterstain: Hematoxylin. Localization: respiratory bronchioles.



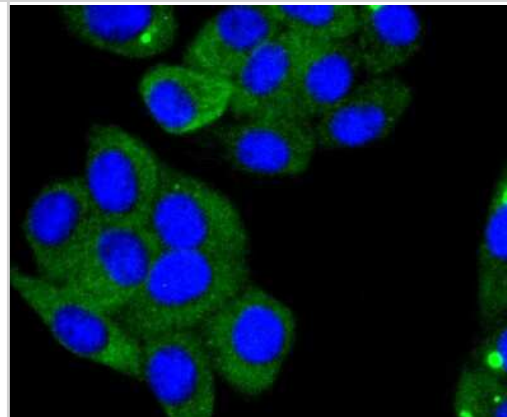
Western Blot: ACE-2 Antibody (SN0754) [NBP2-67692] - Western blot analysis of ACE-2 on Hamster testis (1) and stomach (2) tissue lysates using anti-ACE-2 antibody at 1/1,000 dilution.



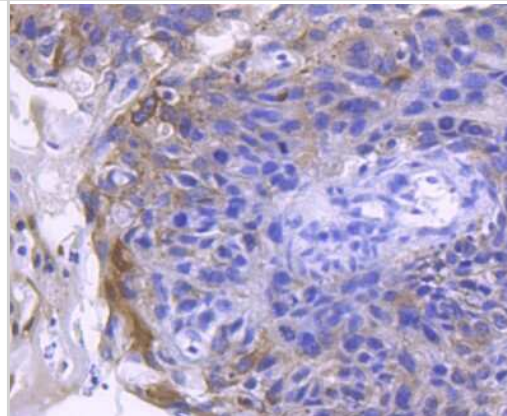
Immunocytochemistry/Immunofluorescence: ACE-2 Antibody (SN0754) [NBP2-67692] - Staining ACE2 in 293 cells (green). The nuclear counter stain is DAPI (blue). Cells were fixed in paraformaldehyde, permeabilised with 0.25% Triton X100/PBS.



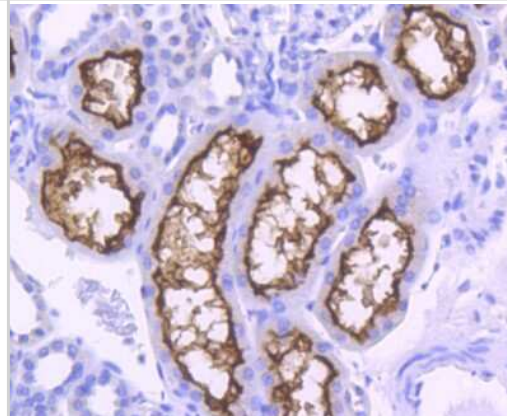
Immunocytochemistry/Immunofluorescence: ACE-2 Antibody (SN0754) [NBP2-67692] - Staining ACE2 in HepG2 cells (green). The nuclear counter stain is DAPI (blue). Cells were fixed in paraformaldehyde, permeabilised with 0.25% Triton X100/PBS.



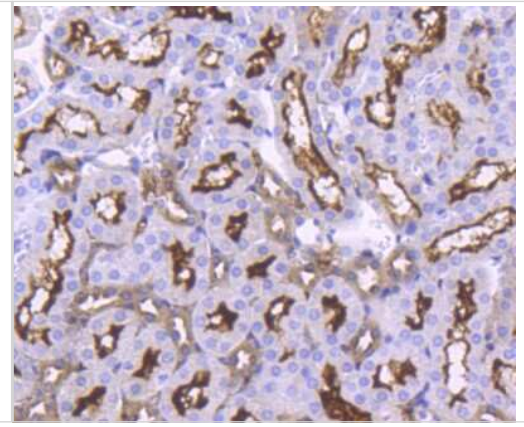
Immunohistochemistry-Paraffin: ACE-2 Antibody (SN0754) [NBP2-67692] - Analysis of paraffin-embedded human breast carcinoma tissue using anti-ACE2 antibody. Counter stained with hematoxylin.



Immunohistochemistry-Paraffin: ACE-2 Antibody (SN0754) [NBP2-67692] - Analysis of paraffin-embedded human kidney tissue using anti-ACE2 antibody. Counter stained with hematoxylin.



Immunohistochemistry-Paraffin: ACE-2 Antibody (SN0754) [NBP2-67692] - Analysis of paraffin-embedded mouse kidney tissue using anti-ACE2 antibody. Counter stained with hematoxylin.





## Publications

T Yamaguchi, M Hoshizaki, T Minato, S Nirasawa, MN Asaka, M Niiyama, M Imai, A Uda, JF Chan, S Takahashi, J An, A Saku, R Nukiwa, D Utsumi, M Kiso, A Yasuhara, VK Poon, CC Chan, Y Fujino, S Motoyama, S Nagata, JM Penninger, H Kamada, KY Yuen, W Kamitani, K Maeda, Y Kawaoka, Y Yasutomi, Y Imai, K Kuba ACE2-like carboxypeptidase B38-CAP protects from SARS-CoV-2-induced lung injury Nature Communications, 2021-11-23;12(1):6791. 2021-11-23 [PMID: 34815389]

Tiwari S, Rana T Generation of 3D lung organoids from human induced pluripotent stem cells for modeling of lung development and viral infection Heliyon 2023-09-01 (IHC, WB, Human)

Subramaniyan B, Gurung S, Bodas M et al. The Isolation and In Vitro Differentiation of Primary Fetal Baboon Tracheal Epithelial Cells for the Study of SARS-CoV-2 Host-Virus Interactions Viruses 2023-03-28 [PMID: 37112842] (WB, Monkey)

### Details:

1:1000 WB dilution

Lindqvist R, Benz C, Sereikaite V et al. A Syntenin Inhibitor Blocks Endosomal Entry of SARS-CoV-2 and a Panel of RNA Viruses Viruses 2022-10-06 [PMID: 36298757] (ICC/IF, Human)

### Details:

Dilution used in ICC 1:500

Forsyth CB, Zhang L, Bhushan A et al. The SARS-CoV-2 S1 Spike Protein Promotes MAPK and NF- $\kappa$ B Activation in Human Lung Cells and Inflammatory Cytokine Production in Human Lung and Intestinal Epithelial Cells Microorganisms 2022-10-10 [PMID: 36296272] (WB, Human)

Suresh V, Parida D, Minz A, Senapati S Tissue distribution of ACE2 protein in Syrian golden hamster (*Mesocricetus auratus*) and its possible implications in SARS-CoV-2 related studies Front Pharmacol 2021-02-11 [PMID: 33568991]

Xue Y, Yang D, Vogel P et al. Cardiopulmonary Injury in the Syrian Hamster Model of COVID-19 Viruses 2022-06-27 [PMID: 35891384]

Ireland RE, Davies CD, Keyser E et al. Histopathological and Immunological Findings in the Common Marmoset Following Exposure to Aerosolized SARS-CoV-2 Viruses 2022-07-21 [PMID: 35891560] (IHC-Fr)

Zeng FM, Li YW, Deng ZH et al. SARS-CoV-2 spike spurs intestinal inflammation via VEGF production in enterocytes EMBO molecular medicine 2022-03-31 [PMID: 35362189] (WB, Mouse)

Ramal-Sanchez M, Castellini C, Cimini C et al. ACE2 Receptor and Its Isoform Short-ACE2 Are Expressed on Human Spermatozoa International journal of molecular sciences 2022-03-28 [PMID: 35409054] (WB, IF/IHC, Human)

Helms L Utility of kidney organoids for disease modeling and therapeutic development Thesis 2022-01-01 (IHC-P, Mouse)

Lee RK, Li TN, Chang SY et al. Identification of Entry Inhibitors against Delta and Omicron Variants of SARS-CoV-2 International journal of molecular sciences 2022-04-06 [PMID: 35409412] (ICC/IF, Human)

More publications at <http://www.novusbio.com/NBP2-67692>





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### **Products Related to NBP2-67692**

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HAF008	Goat anti-Rabbit IgG Secondary Antibody [HRP]
NB7160	Goat anti-Rabbit IgG (H+L) Secondary Antibody [HRP]
NBP2-24891	Rabbit IgG Isotype Control
NBP1-76614PEP	ACE-2 Antibody Blocking Peptide

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### **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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