

# Product Datasheet

## ACE-2 Antibody - BSA Free

### NBP1-76614

Unit Size: 0.1 mg

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

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Updated 10/19/2023 v.20.1

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**NBP1-76614**

ACE-2 Antibody - BSA Free

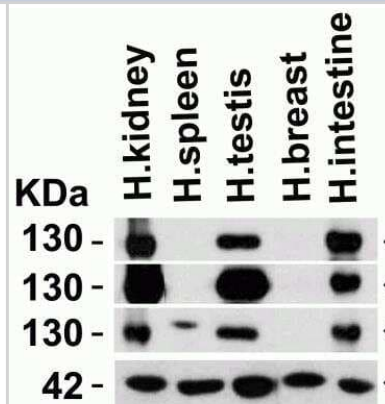
| Product Information     |  |
|-------------------------|--|
| Unit Size               | 0.1 mg   |
| Concentration           | 1 mg/ml  |
| Storage                 | Store at 4C short term. Aliquot and store at -20C long term. Avoid freeze-thaw cycles. |
| Clonality               | Polyclonal   |
| Preservative            | 0.02% Sodium Azide   |
| Isotype                 | IgG  |
| Purity                  | Peptide affinity purified  |
| Buffer                  | PBS  |
| Target Molecular Weight | 90 kDa   |

| Product Description     |   |
|-------------------------|---|
| Host                    | Rabbit  |
| Gene ID                 | 59272   |
| Gene Symbol             | ACE2  |
| Species                 | Human, Mouse, Rat   |
| Specificity/Sensitivity | Anti-ACE2 has no cross response to ACE1.  |
| Immunogen               | Antibody was raised against a peptide corresponding to 17 amino acids near the center of human ACE-2. The immunogen is located within amino acids 180 - 230 of ACE-2. Amino Acid Squence: RANHYEDYGDYWRGDYE |

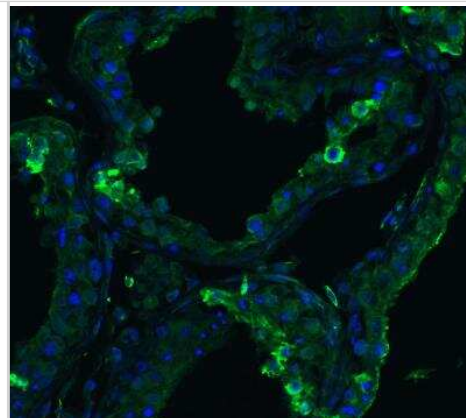
| Product Application Details |  |
|-----------------------------|--|
| Applications                | Western Blot, ELISA, Immunocytochemistry/ Immunofluorescence, Immunohistochemistry, Immunohistochemistry-Paraffin  |
| Recommended Dilutions       | Western Blot 1-2 ug/ml, ELISA 1:100-1:2000, Immunohistochemistry 2ug/ml, Immunocytochemistry/ Immunofluorescence 20ug/ml, Immunohistochemistry-Paraffin 2ug/ml |

**Images**

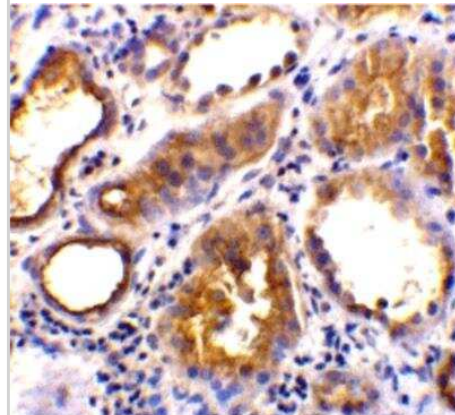
Western Blot: ACE-2 Antibody [NBP1-76614] - Independent Antibody Validation (IAV) via Protein Expression Profile in Human Tissues  
 Loading: 15 ug of lysates per lane. Antibodies: ACE2, (2 ug/mL), ACE2, (2 ug/mL), ACE2, (2 ug/mL) and beta-actin (1 ug/mL), 1h incubation at RT in 5% NFD/MTBST. Secondary: Goat anti-rabbit IgG HRP conjugate at 1:10000 dilution.



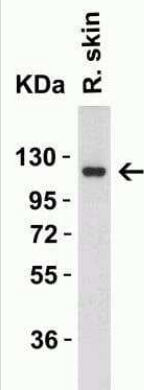
Immunocytochemistry/Immunofluorescence: ACE-2 Antibody [NBP1-76614] - Analysis of 4% paraformaldehyde-fixed human testis tissue labeling ACE-2 with 20 mg/mL, followed by goat anti-rabbit IgG secondary antibody at 1/500 dilution (green) and DAPI staining (blue).



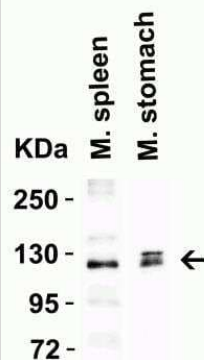
Immunohistochemistry-Paraffin: ACE-2 Antibody [NBP1-76614] - Analysis of paraffin-embedded human kidney tissue using anti-ACE2 antibody 2 ug/ml. Tissue was fixed with formaldehyde and blocked with 10% serum for 1 h at RT; antigen retrieval was by heat mediation with a citrate buffer (pH6). Samples were incubated with primary antibody overnight at 4C. A goat anti-rabbit IgG H&L (HRP) at 1/250 was used as secondary. Counter stained with Hematoxylin.



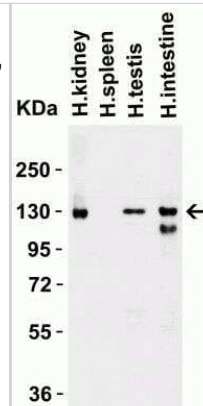
Western Blot: ACE-2 Antibody [NBP1-76614] - Validation in Rat Skin Tissue Loading: 15 ug of lysates per lane. Antibodies: ACE2 (2 ug/mL), 1h incubation at RT in 5% NFDN/TBST. Secondary: Goat anti-rabbit IgG HRP conjugate at 1:10000 dilution.



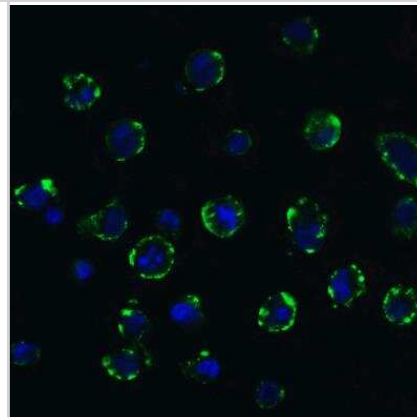
Western Blot: ACE-2 Antibody [NBP1-76614] - Loading: 15 ug of lysates per lane. Antibodies: ACE2, (2 ug/mL), 1h incubation at RT in 5% NFDN/TBST. Secondary: Goat anti-rabbit IgG HRP conjugate at 1:10000 dilution.



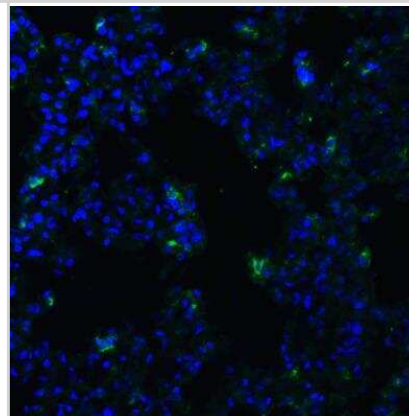
Western Blot: ACE-2 Antibody [NBP1-76614] - Validation in Human Tissues Loading: 15 ug of lysates per lane. Antibodies: ACE2, (2 ug/mL), 1h incubation at RT in 5% NFDm/TBST. Secondary: Goat anti-rabbit IgG HRP conjugate at 1:10000 dilution.



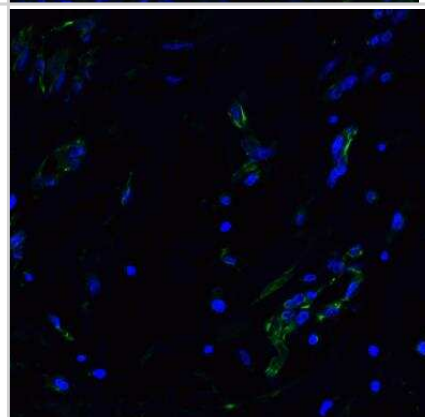
Immunocytochemistry/Immunofluorescence: ACE-2 Antibody [NBP1-76614] - Analysis of 4% paraformaldehyde-fixed Caco2 cells labeling ACE2 at 20 mg/mL, followed by goat anti-rabbit IgG secondary antibody at 1/500 dilution (green) and DAPI staining (blue). Image showing membrane staining on Caco2 cells.



Immunocytochemistry/Immunofluorescence: ACE-2 Antibody [NBP1-76614] - Analysis of 4% paraformaldehyde-fixed rat lung tissue labeling ACE-2 with 3215 at 20 mg/mL, followed by goat anti-rabbit IgG secondary antibody at 1/500 dilution (green) and DAPI staining (blue)



Immunocytochemistry/Immunofluorescence: ACE-2 Antibody [NBP1-76614] - Analysis of 4% paraformaldehyde-fixed human lung tissue labeling ACE-2 at 20 mg/mL, followed by goat anti-rabbit IgG secondary antibody at 1/500 dilution (green) and DAPI staining (blue).



## Publications

Minjin Jeong, Karen E. Ocwieja, Dongjun Han, P. Ashley Wackym, Yichen Zhang, Alyssa Brown, Cynthia Moncada, Andrea Vambutas, Theodore Kanne, Rachel Crain, Noah Siegel, Valerie Leger, Felipe Santos, D. Bradley Welling, Lee Gehrke, Konstantina M. Stankovic Direct SARS-CoV-2 infection of the human inner ear may underlie COVID-19-associated audiovestibular dysfunction *Communications Medicine* 2021-10-29 [PMID: 34870285]

Caroccia B, Vanderriele PE, Seccia TM et al. Aldosterone and cortisol synthesis regulation by angiotensin-(1-7) and angiotensin-converting enzyme 2 in the human adrenal cortex *Journal of Hypertension* 2021-08-01 [PMID: 33657582] (WB)

Nath K, Singh R, Grande J et al. Expression of ACE2 in the Intact and Acutely Injured Kidney *Kidney360* 2022-04-04 [PMID: 35368365]

Singh RD, Barry MA, Croatt AJ et al. The spike protein of SARS-CoV-2 virus induces heme oxygenase-1: Pathophysiologic implications *Biochimica et biophysica acta. Molecular basis of disease* 2021-12-14 [PMID: 34920080] (WB, Human)

Tomchaney M, Contoli M, Mayo J Et al. Paradoxical effects of cigarette smoke and COPD on SARS-CoV-2 infection and disease *BMC pulmonary medicine* 2021-08-23 [PMID: 34425811] (ICC/IF)

Snelson M, R Muralitharan R, Dinakis E et al. Renal ACE2 (Angiotensin-Converting Enzyme 2) Expression Is Modulated by Dietary Fiber Intake, Gut Microbiota, and Their Metabolites *Hypertension (Dallas, Tex. : 1979)* 2021-04-19 [PMID: 33866801]

Wang L, Liang J, Leung PS. The ACE2/Ang-(1-7)/Mas Axis Regulates the Development of Pancreatic Endocrine Cells in Mouse Embryos. *PLoS One* 2015-01-01 [PMID: 26029927] (IF/IHC, Mouse)





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### **Products Related to NBP1-76614**

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

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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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