

Rabbit ACE2 Polyclonal Antibody | anti-ACE2 antibody

ACE2 Antibody

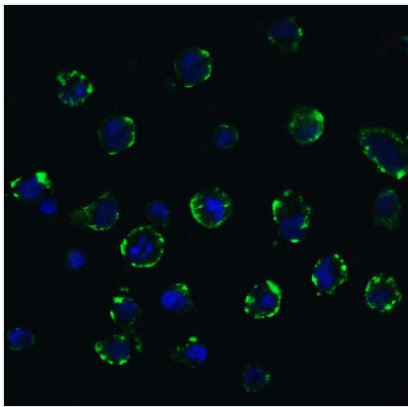
CATALOG # AAA10928	HOST Rabbit	REACTIVITY Human, Mouse, Rat	APPLICATIONS ELISA, Western Blot, Immunohistochemistry, Immunofluorescence
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PRODUCT SYNONYMS

ACE2; Polyclonal Antibody; ACE2 Antibody; ACE2 Antibody: ACEH; Angiotensin-converting enzyme 2; ACE-related carboxypeptidase; ACEH; SARS-CoV receptor; SARS-CoV-2 receptor; anti-ACE2 antibody

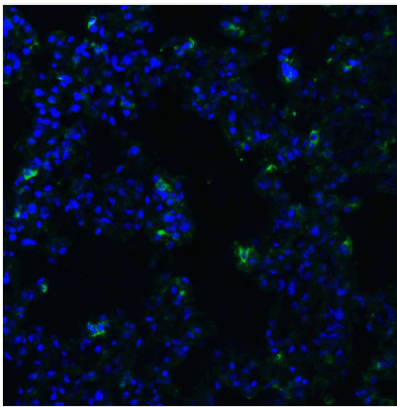
PRODUCT SPECIFICATIONS

Host	Rabbit
Reactivity	Human, Mouse, Rat
Clonality	Polyclonal
Isotype	IgG
Specificity	Anti-ACE2 has no cross response to ACE1.
Purity/Purification	ACE2 Antibody is affinity chromatography purified via peptide column.
Form/Format	Liquid; ACE2 Antibody is supplied in PBS containing 0.02% sodium azide.
Concentration	1 mg/mL (varies by lot)
Sequence Length	805
Applicable Applications for anti-ACE2 antibody	ELISA, WB (Western Blot), IHC (Immunohistochemistry), IF (Immunofluorescence)
Application Notes	WB: In human, mouse and rat samples IHC: In human samples IF: In human and rat samples. All other applications and species not yet tested. Optimal dilutions for each application to be determined by the researcher.
Conjugate	Unconjugated
Immunogen	Anti-ACE2 antibody was raised against a peptide corresponding to 17 amino acids near the center of human ACE2. The immunogen is located within amino acids 180 - 230 of ACE2.
Homology	Predicted species reactivity based on immunogen sequence: Bovine: (94%)
Preparation and Storage	ACE2 antibody can be stored at 4 degree C for three months and -20 degree C, stable for up to one year. As with all antibodies care should be taken to avoid repeated freeze thaw cycles. Antibodies should not be exposed to prolonged high temperatures.



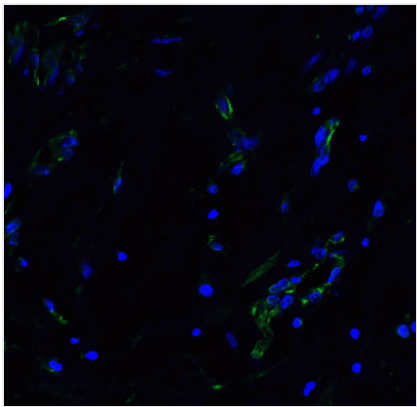
IF (Immuofluorescence)

Figure 9 Immunofluorescence Validation of ACE2 In Caco2 Cells Immunofluorescent analysis of 4% paraformaldehyde-fixed Caco2 cells labeling ACE2 with AAA10928 at 20 ug/mL, followed by goat anti-rabbit IgG secondary antibody at 1/500 dilution (green) and DAPI staining (blue). Imageshowing membrane staining on Caco2 cells.



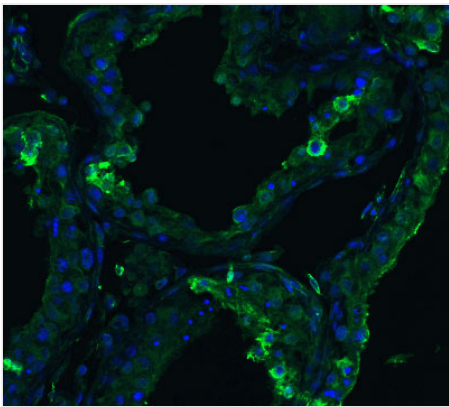
IF (Immunofluorescence)

Figure 8 Immunofluorescence Validation of ACE2 in Rat Lung Tissue Immunofluorescent analysis of 4% paraformaldehyde-fixed rat lung tissue labeling ACE-2 with AAA10928 at 20 ug/mL, followed by goat anti-rabbit IgG secondary antibody at 1/500 dilution (green) and DAPI staining (blue).



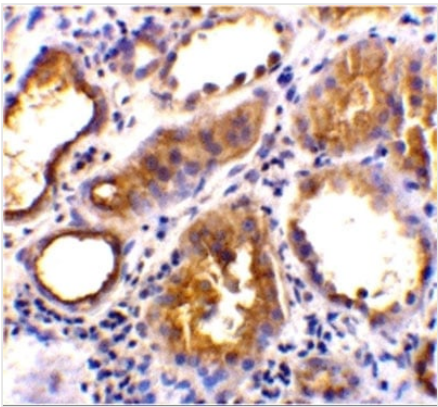
IF (Immunofluorescence)

Figure 7 Immunofluorescence Validation of ACE2 in Human Lung Tissue Immunofluorescent analysis of 4% paraformaldehyde-fixed human lung tissue labeling ACE-2 with AAA10928 at 20ug/mL, followed by goat anti-rabbit IgG secondary antibody at 1/500 dilution (green) and DAPI staining (blue).



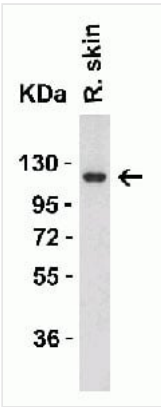
IF (Immunofluorescence)

Figure 6 Immunofluorescence Validation of ACE2 in Human Testis Tissue Immunofluorescent analysis of 4% paraformaldehyde-fixed human testis tissue labeling ACE-2 with AAA10928 at 20ug/mL, followed by goat anti-rabbit IgG secondary antibody at 1/500 dilution (green) and DAPI staining (blue).



IHC (Immunohistochemistry)

Figure 5 Immunohistochemistry Validation of ACE2 in Human Kidney Tissue Immunohistochemical analysis of paraffin-embedded human kidney tissue using anti-ACE2 antibody (AAA10928) at 2ug/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 4°C. A goat anti-rabbit IgG H&L (HRP) at 1/250 was used as secondary. Counter stained with Hematoxylin.



WB (Western Blot)

Figure 4 Western Blot Validation in Rat Skin Tissue Loading: 15 ug of lysates per lane. Antibodies: ACE2, AAA10928 (2 ug/mL), 1h incubation at RT in 5% NFDN/TBST. Secondary: Goat anti-rabbit IgG HRP conjugate at 1:10000 dilution.

ADDITIONAL INFORMATION

Related Product Information for anti-ACE2 antibody	ACE2 Antibody: Angiotensin-converting enzyme 2 (ACE2) plays a central role in vascular, renal, and myocardial physiology. In contrast to its homolog ACE, ACE2 expression is restricted to heart, kidney, and testis. Recently, ACE2 has also been shown to be a functional receptor of the SARS coronavirus. The normal function of ACE2 is to convert the inactive vasoconstrictor angiotensin I (AngI) to Ang1-9 and the active form AngII to Ang1-7, unlike ACE, which converts AngI to AngII. While the role of these vasoactive peptides is not well understood, lack of ACE2 expression in ace2-/ace2- mice leads to severely reduced cardiac contractility, indicating its importance in regulating heart function.
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NCBI AND UNIPROT INFORMATION

NCBI GI #	11225609
NCBI GeneID	59272
NCBI Accession #	NP_068576
NCBI GenBank Nucleotide #	NM_021804.2
UniProt Accession #	Q9BYF1; Q6UWP0; Q86WT0; Q9NRA7; Q9UFZ6; C7ECU1
Molecular Weight	63,912 Da
NCBI Official Full Name	angiotensin-converting enzyme 2
NCBI Official Synonym Full Names	angiotensin I converting enzyme 2
NCBI Official Symbol	ACE2
NCBI Official Synonym Symbols	ACEH
NCBI Protein Information	angiotensin-converting enzyme 2; peptidyl-dipeptidase A; metalloprotease MPROT15; ACE-related carboxypeptidase; angiotensin-converting enzyme homolog; angiotensin I converting enzyme (peptidyl-dipeptidase A) 2
UniProt Protein Name	Angiotensin-converting enzyme 2
UniProt Gene Name	ACE2
UniProt Synonym Gene Names	ACEH
UniProt Entry Name	ACE2_HUMAN

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

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Online datasheet: <https://www.aaabiotech.com/polyclonal/ace2-antibody-western-blot-immunohistochemistry-immunofluorescence-elisa/10928>