

Rabbit ACE2 Polyclonal Antibody | anti-ACE2 antibody

ACE2 Antibody

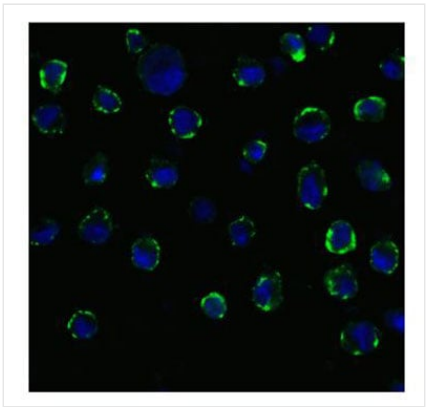
CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA10945	Rabbit	Human, Mouse, Rat	ELISA, Western Blot, Immunohistochemistry, Immunofluorescence

PRODUCT SYNONYMS

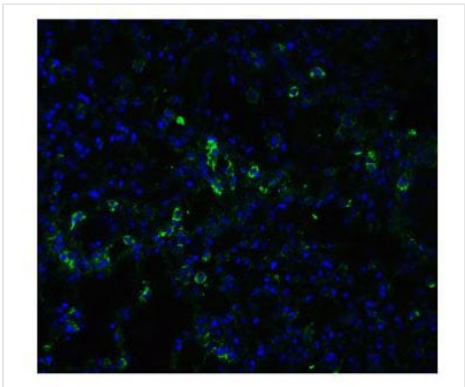
ACE2; Polyclonal Antibody; ACE2 Antibody; ACEH; Angiotensin-converting enzyme 2; ACE-related carboxypeptidase; angiotensin I converting enzyme (peptidyl-dipeptidase A) 2; ACE2 Antibody: ACEH; SARS-CoV receptor; SARS-CoV-2 receptor; anti-ACE2 antibody

PRODUCT SPECIFICATIONS

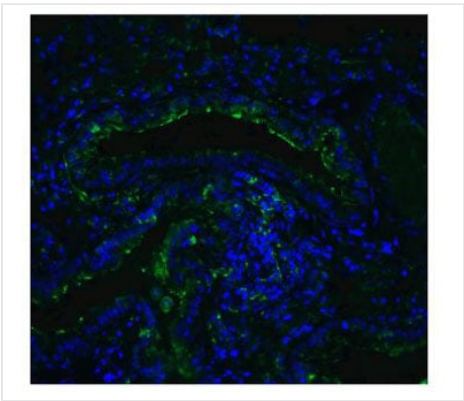
Host	Rabbit
Reactivity	Human, Mouse, Rat
Clonality	Polyclonal
Isotype	IgG
Specificity	Anti-ACE2 has no cross response to ACE1.
Purity/Purification	ACE2 Antibody is affinity chromatography purified via peptide column.
Form/Format	Liquid
Concentration	1 mg/mL (varies by lot)
Sequence Length	805
Applicable Applications for anti-ACE2 antibody	ELISA, WB (Western Blot), IHC (Immunohistochemistry), IF (Immunofluorescence)
Application Notes	WB: 1-2 ug/mL IHC: 2 ug/mL IF: 10 ug/mL Antibody validated: Western Blot in human, mouse and rat samples; Immunohistochemistry in human samples; Immunofluorescence in human, mouse and rat samples. All other applications and species not yet tested.
Conjugate	Unconjugated
Immunogen	ACE2 antibody was raised against a peptide corresponding to 14 amino acids near the amino terminus of human ACE2.
Buffer	ACE2 Antibody is supplied in PBS containing 0.02% sodium azide.
Homology	Predicted species reactivity based on immunogen sequence: Bovine (86%)
Preparation and Storage	Antibody can be stored at 4 degree C up to one year. Antibodies should not be exposed to prolonged high temperatures.



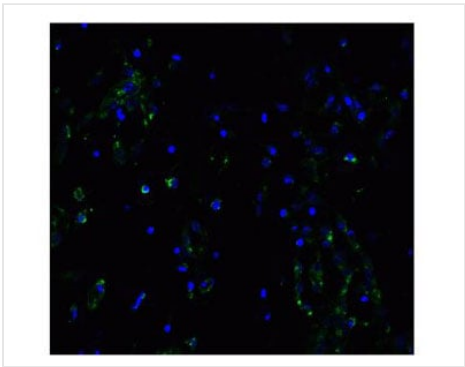
IF (Immunofluorescence)
Figure 11 Immunofluorescence Validation of ACE2 In Caco2 Cells Immunofluorescent analysis of 4% paraformaldehyde-fixed Caco2 cells labeling ACE2 with AAA10945 at 20 ug/mL, followed by goat anti-rabbit IgG secondary antibody at 1/500 dilution (green) and DAPI staining (blue). Imageshowing membrane staining on Caco2 cells.



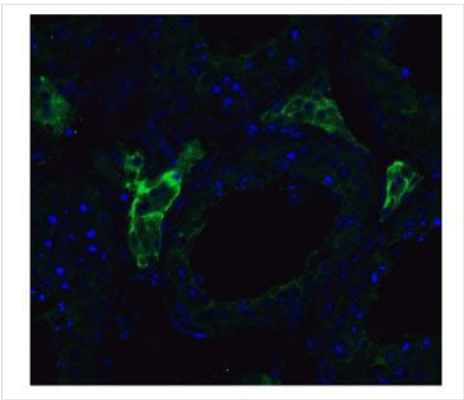
IF (Immunofluorescence)
Figure 9 Immunofluorescence Validation of ACE2 in Rat Lung Tissue Immunofluorescent analysis of 4% paraformaldehyde-fixed rat lung tissue labeling ACE-2 with AAA10945 at 20 ug/mL, followed by goat anti-rabbit IgG secondary antibody at 1/500 dilution (green) and DAPI staining (blue).



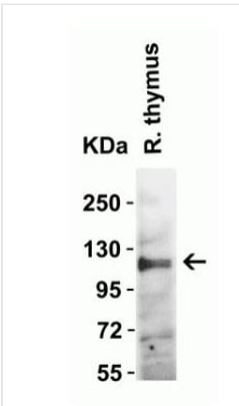
IF (Immunofluorescence)
Figure 8 Immunofluorescence Validation of ACE2 in Mouse Lung Tissue Immunofluorescent analysis of 4% paraformaldehyde-fixed mouse lung tissue labeling ACE-2 with AAA10945 at 20ug/mL, followed by goat anti-rabbit IgG secondary antibody at 1/500 dilution (green) and DAPI staining (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 AAA10945 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 AAA10945 at 20ug/mL, followed by goat anti-rabbit IgG secondary antibody at 1/500 dilution (green) and DAPI staining (blue).



WB (Western Blot)
Figure 4 Western Blot Validation in Rat Thymus Tissue Loading: 15 ug of lysates per lane. Antibodies: ACE2, AAA10945(2 ug/mL), 1h incubation at RT in 5% NFDm/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. Homology modeling shows 2019-nCoV has a similar receptor-binding domain structure as SARS-CoV, which suggests COVID-19 (2019-nCoV) may use ACE2 as a receptor in humans for infection. 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	Predicted MW: 93 kD Observed MW: 130 kD (7 N-linked glycosylation)
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/10945>