

Rabbit anti-Human ACE2/ACE-2 Polyclonal Antibody | anti-ACE2 antibody

ACE2/ACE-2 Rabbit anti-Human Polyclonal Antibody

CATALOG # AAA21385	HOST Rabbit	REACTIVITY Human	APPLICATIONS ELISA, Immunohistochemistry, Western Blot
------------------------------	-----------------------	----------------------------	--

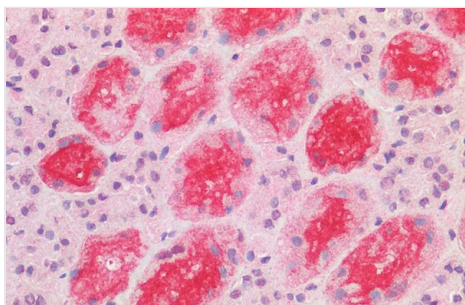
PRODUCT SYNONYMS

ACE2/ACE-2; Polyclonal Antibody; ACE2/ACE-2 Rabbit anti-Human Polyclonal Antibody; PathPlus ACE2/ACE-2 Antibody; ACE2; ACE-related carboxypeptidase; ACEH; Metalloprotease MPROT15; SARS-CoV2 Coronavirus Receptor; SARS-CoV-2 Coronavirus Receptor; COVID-19 viral receptor; anti-ACE2 antibody

PRODUCT SPECIFICATIONS

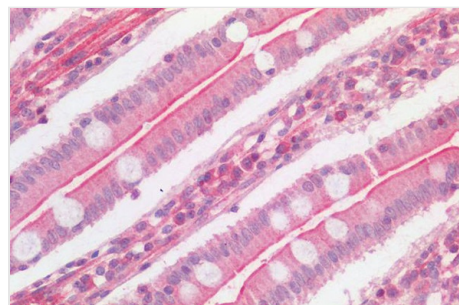
Host	Rabbit
Reactivity	Human
Clonality	Polyclonal
Purity/Purification	Immunoaffinity purified
Form/Format	PBS, 0.1% Sodium Azide
Concentration	1mg/ml (varies by lot)
Applicable Applications for anti-ACE2 antibody	ELISA, IHC (Immunohistochemistry), WB (Western Blot)
Target	Human ACE2/ACE-2
Immunogen	LP-13632, synthetic peptide
Conjugation	Unconjugated
Family	Protease
Subfamily	Metallopeptidase M2
Preparation and Storage	Aliquot and store undiluted at -20 degree C or below for up to 1 year. Can be stored undiluted at 4 degree C for up to 1 month. Avoid freeze-thaw cycles.

IMAGES



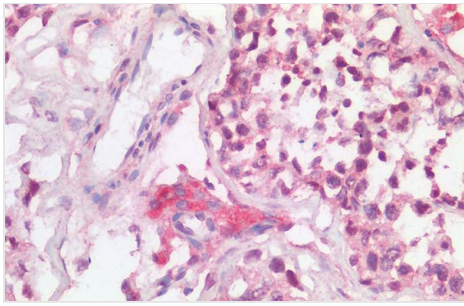
IHC (Immunohistochemistry)

ACE2/ACE-2 Antibody-Human Kidney: Formalin-Fixed, Paraffin-Embedded (FFPE)



IHC (Immunohistochemistry)

ACE2/ACE-2 Antibody-Human Small Intestine: Formalin-Fixed, Paraffin-Embedded (FFPE)



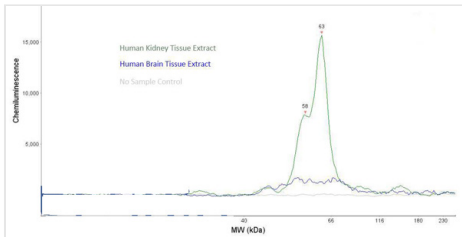
IHC (Immunohistochemistry)

ACE2/ACE-2 Antibody-Human Testis: Formalin-Fixed, Paraffin-Embedded (FFPE)



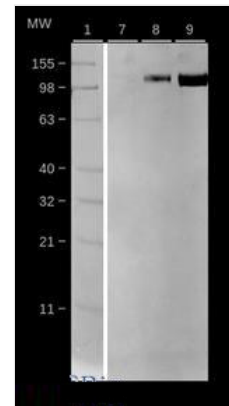
WB (Western Blot)

ACE2/ACE-2 Antibody-Capillary Western Analysis of anti-ACE2 antibody (AAA21385, 20 ug/mL) using 12-230 kDa separation module. Lane 1: no sample negative control; Lane 2: 1.875ug whole human kidney lysate (positive control), Lane 3: 1.875ug whole human brain lysate (negative control). Antibody produced a predominant ~63kDa and minor ~58kDa band in the kidney, and no banding in the brain. (Protein Simple Virtual Blot)



Application Data

ACE2/ACE-2 Antibody-Capillary Western Analysis of anti-ACE2 antibody (AAA21385, 20 ug/mL) using 12-230 kDa separation module. Lane 1: no sample negative control; Lane 2: 1.875ug whole human kidney lysate (positive control), Lane 3: 1.875ug whole human brain lysate (negative control). Antibody produced a predominant ~63kDa and minor ~58kDa band in the kidney, and no banding in the brain. (Protein Simple Electropherogram)



Application Data

ACE2/ACE-2 Antibody-Western Blot: AAA21385 (1:100) vs. full-length recombinant human ACE2 protein. Lane 7: 50 ng, Lane 8: 100 ng, Lane 9 500ng. Detection fluorescent conjugated anti-rabbit secondary antibody (1:100).

ADDITIONAL INFORMATION

Related Product Information for anti-ACE2 antibody

ACE-2 antibody is an unconjugated rabbit polyclonal antibody to ACE-2 (ACE2) from human. Validated for ELISA, IHC and WB. Tested on 20 paraffin-embedded human tissues.

Angiotensin-Converting Enzyme 2 (ACE2) is a transmembrane protein found in the lungs, intestines, heart, kidney, liver and arteries that plays a central role in vascular, renal, and myocardial physiology. 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. It is involved in controlling vascular function including blood pressure, and absence of ACE2 expression in ace2-/ace2- mice leads to severely reduced cardiac contractility, indicating its importance in regulating heart function. ACE2 is also the primary attachment receptor for HCoV-N63, SARS-CoV and SARS-CoV-2. The S1 portion of the coronavirus spike protein attaches to ACE2 presented on the host cell surface. The SARS-CoV-2 virus targets pneumocytes and macrophages expressing ACE2 in the lung, and it is believed to infect ACE2-positive cells in other tissues including the gastrointestinal tract and potentially the liver (in cholangiocytes).

NCBI AND UNIPROT INFORMATION

NCBI GI #	11225609
NCBI GeneID	59272
NCBI Accession #	NP_068576.1
NCBI GenBank Nucleotide #	NM_021804
UniProt Accession #	Q9BYF1; Q6UWP0; Q86WT0; Q9NRA7; Q9UFZ6; C7ECU1

Molecular Weight	92,463 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.

AAA Biotech | Tel: +1 (619) 604-9440 | Fax: +1 (619) 604-9441 | contact@aaabiotech.com

Online datasheet: <https://www.aaabiotech.com/polyclonal/ace2-ace-2-antibody-immunohistochemistry-western-blot-elisa/21385>