

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

ACE2/ACE-2 Rabbit anti-Human Polyclonal (aa684-733) Antibody

CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA162548	Rabbit	Rat, Human	Western Blot, Immunohistochemistry, Immunohistochemistry

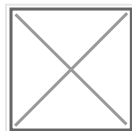
PRODUCT SYNONYMS

ACE2/ACE-2; Polyclonal Antibody; ACE2/ACE-2 Rabbit anti-Human Polyclonal (aa684-733) Antibody; PathPlus ACE2/ACE-2 Antibody (aa684-733); 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	Rat, Human
Clonality	Polyclonal
Specificity	Human ACE2
Purity/Purification	Immunoaffinity purified
Form/Format	PBS, 0.09% sodium azide, 2% sucrose
Concentration	0.5mg/ml (varies by lot)
Applicable Applications for anti-ACE2 antibody	WB (Western Blot), IHC (Immunohistochemistry), IHC (Immunohistochemistry)
Target	Human ACE2/ACE-2
Immunogen	Synthetic peptide located between aa684-733 of human ACE2 (Q9BYF1, NP_068576). Percent identity by BLAST analysis: Human, Orangutan, Gibbon, Marmoset (100%); Monkey, Galago, Mouse, Rat, Ferret, Panda, Dog, Cat, Bovine, Bat (92%); Horse, Pig, Opossum (85%).
Conjugation	Unconjugated
Epitope	aa684-733
Family	Protease
Subfamily	Metallopeptidase M2
Preparation and Storage	Short term: Store at 2-8 degree C. Long term: Aliquot and store at -20 degree C. Avoid freeze/thaw cycles.

IMAGES



IHC (Immunohistochemistry)

ACE2/ACE-2 Antibody-Anti-ACE-2 antibody IHC of human testis. Immunohistochemistry of formalin-fixed, paraffin-embedded tissue after heat-induced antigen retrieval. Antibody concentration 5 ug/ml. This image was taken for the unconjugated form of this product. Other forms have not been tested.



IHC (Immunohistochemistry)

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



WB (Western Blot)

ACE2/ACE-2 Antibody-ACE2 antibody Western blot of Fetal Kidney lysate. This image was taken for the unconjugated form of this product. Other forms have not been tested.

ADDITIONAL INFORMATION

Related Product Information for anti-ACE2 antibody	ACE-2 antibody is an unconjugated rabbit polyclonal antibody to ACE-2 (ACE2)(aa684-733) from human. It is reactive with human and pig. Validated for IHC and WB. 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-/- 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).
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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.