ACE2 Antibody – Rabbit Polyclonal

PRODUCT OVERVIEW

Product Name	ACE2, Polyclonal Antibody
Full Product Name	ACE2, CT (Angiotensin-converting Enzyme 2, ACE-related Carboxypeptidase, Angiotensin-converting Enzyme Homolog, ACEH, Metalloprotease MPROT15, Processed Angiotensin-converting Enzyme 2, UNQ868/PRO1885) (MaxLight 750)
Product Gene Name	anti-ACE2 antibody
Clonality	Polyclonal
Isotype	IgG
Host	Rabbit
Species Reactivity	Human
Form/Format	Supplied as a liquid in PBS, pH 7.2. No preservative added. Labeled with MaxLight750.
Purity/Purification	Purified by Protein G Affinity Chromatography.
Specificity	Recognizes human ACE2.
Preparation and Storage	Store product at 4 degree C in the dark. DO NOT FREEZE! Stable at 4 degree C for 12 months after receipt as an undiluted liquid. Dilute required amount only prior to immediate use. Further dilutions can be made in assay buffer. Caution: MaxLight750 conjugates are sensitive to light. For maximum recovery of product, centrifuge the original vial prior to removing the cap.
Molecular Weight	63,912 Da
OMIM	300335
3D Structure	ModBase 3D Structure for Q9BYF1
Immunogen	Synthetic peptide selected from the C-terminal region of human ACE2 (KLH).
Conjugate	MaxLight750
Note	Preservative Free
Product Categories/Family for anti-ACE2 antibody	Antibodies; ACE
Applications Tested/Suitable for anti-ACE2 antibody	Immunohistochemistry (IHC), FLISA, Western Blot (WB)
Application Notes for anti-ACE2 antibody	IHC: 1:50-1:100 FLISA: 1:1,000 WB: 1:100-1:500 Applications are based on unconjugated antibody.
Related Product Information for anti-ACE2 antibody	MBS6463184 is an antibody targeting ACE2. Also known as ACE2, CT (Angiotensin-converting Enzyme 2, ACE-related Carboxypeptidase, Angiotensin-converting Enzyme Homolog, ACEH, Metalloprotease MPROT15, Processed Angiotensin-converting Enzyme 2, UNQ868/PRO1885) (MaxLight 750). Reactive in Human. Host: Rabbit.
Product References and Citations for anti-ACE2 antibody	1. Douglas, G.C., et al., Endocrinology 145(10):4703-4711 (2004). 2. Turner, A.J., et al., Trends Pharmacol. Sci. 25(6):291-294 (2004). 3. Towler, P., et al., J. Biol. Chem. 279(17):17996-18007 (2004). 4. Wong, S.K., et al., J. Biol. Chem. 279(5):3197-3201 (2004). 5. Li, W., et al., Nature 426(6965):450-454 (2003).

Other Notes	Small volumes of anti-ACE2 antibody vial(s) may occasionally become entrapped in the seal of the product vial during shipment and storage. If necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the container`s cap. Certain products may require to ship with dry ice and additional dry ice fee may apply.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for ACE2. It may not necessarily be applicable to this product.

NCBI GI #	11225609
NCBI GeneID	59272
NCBI Accession #	NP_068576
UniProt Primary Accession #	Q9BYF1
UniProt Secondary Accession #	Q6UWP0; Q86WT0; Q9NRA7; Q9UFZ6; C7ECU1
UniProt Related Accession #	Q9BYF1
GenBank Nucleotide #	NM_021804.2
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
UniProt Protein Name	Angiotensin-converting enzyme 2
UniProt Synonym Protein Names	ACE-related carboxypeptidase; Angiotensin-converting enzyme homolog; ACEH; Metalloprotease MPROT15
Protein Family	Angiotensin-converting enzyme
UniProt Gene Name	ACE2
UniProt Synonym Gene Names	ACEH
UniProt Entry Name	ACE2_HUMAN
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
NCBI Summary for ACE2	The protein encoded by this gene belongs to the angiotensin-converting enzyme family of dipeptidyl carboxydipeptidases and has considerable homology to human angiotensin 1 converting enzyme. This secreted protein catalyzes the cleavage of angiotensin I into angiotensin 1-9, and angiotensin II into the vasodilator angiotensin 1-7. The organ- and cell-specific expression of this gene suggests that it may play a role in the regulation of cardiovascular and renal function, as well as fertility. In addition, the encoded protein is a functional receptor for the spike glycoprotein of the human coronaviruses SARS and HCoV-NL63. [provided by RefSeq, Jul 2008]

UniProt Comments for ACE2	ACE2: Carboxypeptidase which converts angiotensin I to angiotensin 1-9, a peptide of unknown function, and angiotensin II to angiotensin 1-7, a vasodilator. Also able to hydrolyze apelin- 13 and dynorphin-13 with high efficiency. May be an important regulator of heart function. In case of human coronaviruses SARS and HCoV-NL63 infections, serve as functional receptor for the spike glycoprotein of both coronaviruses. Interacts with ITGB1. Interacts with SARS-CoV and HCoV- NL63 spike glycoprotein. Up-regulated in failing heart. Expressed in endothelial cells from small and large arteries, and in arterial smooth muscle cells. Expressed in lung alveolar epithelial cells, enterocytes of the small intestine, Leydig cells and Sertoli cells. Expressed in heart, kidney, testis, and gastrointestinal system. Activated by chloride and fluoride, but not bromide. Inhibited by MLN-4760, cFP_Leu, and EDTA, but not by the ACE inhibitors linosipril, captopril and enalaprilat. Belongs to the peptidase M2 family. 2 isoforms of the human protein are produced by alternative splicing. Protein type: EC 3.4.17.23; Membrane protein, integral; Protease Chromosomal Location of Human Ortholog: Xp22 Cellular Component: extracellular space; cell surface; cytoplasm; integral to membrane; plasma membrane; extracellular region; lipid raft Molecular Function: peptidyl-dipeptidase activity; viral receptor activity; protein binding; metallopeptidase activity; carboxypeptidase activity; zinc ion binding; peptide hormone binding; endopeptidase activity; glycoprotein binding Biological Process: virion attachment, binding of host cell surface receptor; entry of virus into host cell; maternal process involved in pregnancy; regulation of vasodilation; proteolysis; angiotensin maturation; regulation of systemic arterial blood pressure by renin-angiotensin; regulation of cell proliferation; regulation of cytokine production; cellular protein metabolic process; regulation of vasoconstriction; regulation of inflammatory response; angiotensin catabolic process in blood; receptor biosynthetic process; angiotensin mediated drinking behavior
Research Articles on ACE2	**1.** ACE2 cleavage is regulated by influenza A H1N1 neuraminidase.
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