

Rabbit ACE1 Polyclonal Antibody | anti-ACE1 antibody

ACE1 Antibody

CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA321865	Rabbit	Human, Mouse, Rat	ELISA, Immunohistochemistry, Western Blot

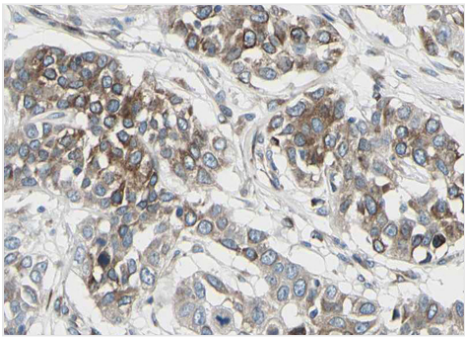
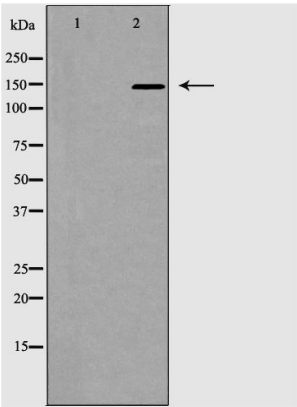
PRODUCT SYNONYMS

ACE1; Polyclonal Antibody; ACE1 Antibody; ACE 1; ACE; ACE T; ACE_HUMAN; Angiotensin converting enzyme somatic isoform; Angiotensin converting enzyme testis specific isoform; Angiotensin I converting enzyme 1; Angiotensin I converting enzyme; Angiotensin I converting enzyme peptidyl dipeptidase A 1; angiotensin I converting enzyme peptidyl-dipeptidase A 1 transcript; Angiotensin-converting enzyme; Carboxypeptidase; CD 143; CD143; CD143 antigen; DCP 1; DCP; DCP1; Dipeptidyl carboxypeptidase 1; Dipeptidyl carboxypeptidase I; Kininase II; MGC26566; MVCD3; Peptidase P; Peptidyl dipeptidase A; soluble form; Testicular ECA; anti-ACE1 antibody

PRODUCT SPECIFICATIONS

Host	Rabbit
Reactivity	Human, Mouse, Rat
Clonality	Polyclonal
Isotype	IgG
Specificity	ACE1 antibody detects endogenous levels of total ACE1
Purity/Purification	The antiserum was purified by peptide affinity chromatography using SulfoLink Coupling Resin.
Form/Format	Liquid Phosphate buffered saline, pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol.
Concentration	1mg/ml (varies by lot)
Sequence Length	1306
Applicable Applications for anti-ACE1 antibody	ELISA, IHC (Immunohistochemistry), WB (Western Blot)
Immunogen	A synthesized peptide derived from human ACE1
Subcellular Location	Secreted and Cell Membrane.
Tissue Specificity	Ubiquitously expressed, with highest levels in lung, kidney, heart, gastrointestinal system and prostate. Isoform Testis-specific is expressed in spermatocytes and adult testis.
Predicted Cross Reactivity	Pig, Zebrafish, Horse, Sheep, Rabbit, Dog, Chicken
Similarity	Pig (100%), Zebrafish (100%), Horse (100%), Sheep (100%), Rabbit (100%), Dog (100%), Chicken (86%)
Conjugation	Unconjugated
Preparation and Storage	Store at -20 degree C. Stable for 12 months from date of receipt.

IMAGES



IHC (Immunohistochemistry)
AAA321865 at 1/100 staining human lung tissue sections by IHC-P. The tissue was formaldehyde fixed and a heat mediated antigen retrieval step in citrate buffer was performed. The tissue was then blocked and incubated with the antibody for 1.5 hours at 22 degree C. An HRP conjugated goat anti-rabbit antibody was used as the secondary.

WB (Western Blot)
Western blot analysis of ACE1 expression in mouse kidney, The lane on the left is treated with the antigen-specific peptide.

ADDITIONAL INFORMATION

Related Product Information for anti-ACE1 antibody

Description: Converts angiotensin I to angiotensin II by release of the terminal His-Leu, this results in an increase of the vasoconstrictor activity of angiotensin. Also able to inactivate bradykinin, a potent vasodilator. Has also a glycosidase activity which releases GPI-anchored proteins from the membrane by cleaving the mannose linkage in the GPI moiety.

Post-translational Modifications: Phosphorylated by CK2 on Ser-1299; which allows membrane retention.

Similarity: Belongs to the peptidase M2 family.

NCBI AND UNIPROT INFORMATION

NCBI GI #	4503273
NCBI GeneID	1636
NCBI Accession #	NP_000780.1
NCBI GenBank Nucleotide #	NM_000789.3
UniProt Accession #	P12821; P22966; Q53YX9; Q59GY8; Q7M4L4; B0LPF0; B4DXI3; E7EU16
Molecular Weight	Observed: 149 kDa Predicted: 150 kDa
NCBI Official Full Name	angiotensin-converting enzyme isoform 1
NCBI Official Synonym Full Names	angiotensin I converting enzyme
NCBI Official Symbol	ACE
NCBI Official Synonym Symbols	DCP; ACE1; DCP1; CD143
NCBI Protein Information	angiotensin-converting enzyme
UniProt Protein Name	Angiotensin-converting enzyme
UniProt Gene Name	ACE
UniProt Synonym Gene Names	DCP; DCP1; ACE

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.