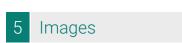
# antibodies .- online.com







# anti-Angiotensin I Converting Enzyme 1 antibody (AA 651-864)







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Quantity:	100 μg
Target:	Angiotensin I Converting Enzyme 1 (ACE)
Binding Specificity:	AA 651-864
Reactivity:	Human, Mouse, Rat
Host:	Rabbit
Clonality:	Polyclonal
Application:	Western Blotting (WB), Immunohistochemistry (Paraffin-embedded Sections) (IHC (p)), Immunohistochemistry (Frozen Sections) (IHC (fro))
Product Details	
Purpose:	Rabbit IgG polyclonal antibody for Angiotensin-converting enzyme(ACE) detection. Tested with WB, IHC-P, IHC-F in Human, Mouse, Rat.
Immunogen:	E.coli-derived human ACE recombinant protein (Position: K651-Y864). Human ACE shares 73% and 76% amino acid (aa) sequences identity with mouse and rat ACE, respectively.
Isotype:	IgG
Cross-Reactivity (Details):	No cross reactivity with other proteins.
Characteristics:	Rabbit IgG polyclonal antibody for Angiotensin-converting enzyme(ACE) detection. Tested with WB, IHC-P, IHC-F in Human, Mouse, Rat.  Gene Name: angiotensin I converting enzyme  Protein Name: Angiotensin-converting enzyme
Purification:	Immunogen affinity purified.

## **Target Details**

Target:	Angiotensin I Converting Enzyme 1 (ACE)		
Alternative Name:	ACE (ACE Products)		
Background:	Angiotensin-converting enzyme (ACE), an exopeptidase, is a circulating enzyme that		
	participates in the body's renin-angiotensin system(RAS), which mediates extracellular volume		
	(i.e. that of the blood plasma, lymph and interstitial fluid), and arterial vasoconstriction. It is		
	secreted by pulmonary and renal endothelial cells and catalyzes the conversion of decapeptide		
	angiotensin I to octapeptide angiotensin II. Using a DNA marker at the growth hormone gene		
	locus, which they characterized as 'extremely polymorphic' and which showed no		
	recombination with ACE, ACE was mapped to 17q22-q24, consistent with the in situ		
	hybridization mapping to 17q23. ACE, or kininase II, is a dipeptidyl carboxypeptidase that plays		
	an important role in blood pressure regulation and electrolyte balance by hydrolyzing		
	angiotensin I into angiotensin II, a potent vasopressor, and aldosterone-stimulating peptide. The		
	enzyme is also able to inactivate bradykinin, a potent vasodilator.		
	Synonyms: ACE 1 antibody ACE antibody ACE T antibody ACE_HUMAN antibody ACE1		
	antibody Angiotensin converting enzyme somatic isoform antibody Angiotensin converting		
	enzyme testis specific isoform antibody Angiotensin I converting enzyme antibody Angiotensin		
	I converting enzyme 1 antibody Angiotensin I converting enzyme peptidyl dipeptidase A 1		
	antibody Angiotensin-converting enzyme antibody Carboxycathepsin antibody CD 143		
	antibody CD143 antibody CD143 antigen antibody DCP 1 antibody DCP antibody DCP1		
	antibody Dipeptidyl carboxypeptidase 1 antibody Dipeptidyl carboxypeptidase I		
	antibody Kininase II antibody MGC26566 antibody MVCD3 antibody Peptidase P		
	antibody Peptidyl dipeptidase A antibody soluble form antibody Testicular ECA antibody		
Gene ID:	1636		
UniProt:	P12821		
Pathways:	ACE Inhibitor Pathway, Peptide Hormone Metabolism, Regulation of Systemic Arterial Blood		
	Pressure by Hormones, Feeding Behaviour, Smooth Muscle Cell Migration		
Application Details			
Application Notes:	WB: Concentration: 0.1-0.5 µg/mL, Tested Species: Human, Mouse, The detection limit for ACE		
	is approximately 0.25 ng/lane under reducing conditions.		
	IHC-P: Concentration: 0.5-1 μg/mL, Tested Species: Human, Mouse, Rat, Epitope Retrieval by		
	Heat: Boiling the paraffin sections in 10 mM citrate buffer, pH 6.0, for 20 mins is required for the		

## **Application Details**

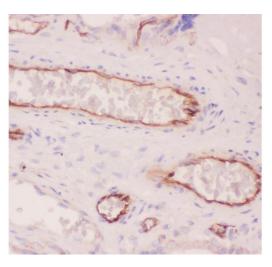
Application Details		
	staining of formalin/paraffin sections.	
	IHC-F: Concentration: 0.5-1 µg/mL, Tested Species: Mouse	
	Notes: Tested Species: Species with positive results. Other applications have not been tested.	
	Optimal dilutions should be determined by end users.	
Comment:	Antibody can be supported by chemiluminescence kit ABIN921124 in WB, supported by	
	ABIN921231 in IHC(P) and IHC(F).	
Restrictions:	For Research Use only	
Handling		
Format:	Lyophilized	
Reconstitution:	Add 0.2 mL of distilled water will yield a concentration of 500 µg/mL.	
Concentration:	500 μg/mL	
Buffer:	Each vial contains 5 mg BSA, 0.9 mg NaCl, 0.2 mg Na2HPO4, 0.05 mg Sodium azide.	
Preservative:	Sodium azide	
Precaution of Use:	This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which	
	should be handled by trained staff only.	
Handling Advice:	Avoid repeated freezing and thawing.	
Storage:	4 °C/-20 °C	
Storage Comment:	At -20°C for one year. After reconstitution, at 4°C for one month.	
	It can also be aliquotted and stored frozen at -20 °C for a longer time. Avoid repeated freezing	
	and thawing.	
Publications		
Product cited in:	Mao, Lu, Wang, Tian, Huang, Feng, Zhang, Chang: "Role of PI3K p110β in the differentiation of	
	human embryonic stem cells into islet-like cells." in: Biochemical and biophysical research	
	communications, Vol. 488, Issue 1, pp. 109-115, (2017) (PubMed).	
	Wang, Zhou, Zhang, Wu, Zhang, Zhang: "Identification and localization of gastrointestinal	
	hormones in the skin of the bullfrog Rana catesbeiana during periods of activity and	
	hibernation." in: Acta histochemica, Vol. 116, Issue 8, pp. 1418-26, (2014) (PubMed).	

Chen, He, Peng, Liu, Jin, Cao, Wang, Xiao: "An immunohistochemical study of somatostatin in the stomach and the small intestine of the African ostrich (Struthio camelus)." in: **Tissue & cell**, Vol. 45, Issue 6, pp. 363-6, (2013) (PubMed).

Jiang, Deng, Duan, Chen, Xiang, Lu, Ma: "Somatostatin receptors SSTR2 and SSTR5 are expressed in the human thoracic duct." in: **Lymphology**, Vol. 44, Issue 1, pp. 21-8, (2011) (PubMed).

Zong, Chen, Zhang, Zou: "Effects of intra-gastric beta-casomorphin-7 on somatostatin and gastrin gene expression in rat gastric mucosa." in: **World journal of gastroenterology**, Vol. 13, Issue 14, pp. 2094-9, (2007) (PubMed).

### Validation report #300031 for Immunohistochemistry (IHC)



#### **Immunohistochemistry**

Image 1. Anti-ACE Picoband antibody, IHC(P): Human Placenta Tissue

# 100KD-

70KD-

55KD -

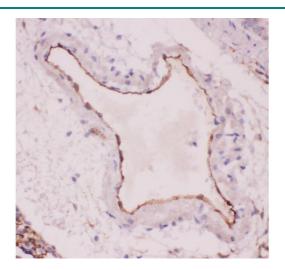
35KD-

25KD-

15KD -

#### **Western Blotting**

**Image 2.** Anti-ACE Picoband antibody, All lanes: Anti ACE at 0.5ug/ml WB: Recombinant Human ACE Protein 0.5ng Predicted bind size: 47KD Observed bind size: 47KD



#### **Immunohistochemistry**

Image 3. Anti-ACE Picoband antibody, IHC(P): Rat Lung Tissue

Please check the product details page for more images. Overall 5 images are available for ABIN3043777.