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# anti-Angiotensin I Converting Enzyme 1 antibody (Middle Region)



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Overview	
Quantity:	100 μg
Target:	Angiotensin I Converting Enzyme 1 (ACE)
Binding Specificity:	AA 702-715, Middle Region
Reactivity:	Human
Host:	Rabbit
Clonality:	Polyclonal
Application:	Western Blotting (WB), Immunohistochemistry (Paraffin-embedded Sections) (IHC (p))
Product Details	
Purpose:	Rabbit IgG polyclonal antibody for Angiotensin-converting enzyme(ACE) detection. Tested with WB, IHC-P in Human.
Immunogen:	A synthetic peptide corresponding to a sequence in the middle region of human Angiotensin Converting Enzyme 1(702-715aa TQARKFDVNQLQNT).
Sequence:	TQARKFDVNQ LQNT
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 in Human.  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 I converting enzyme(ACE), also called DCP or CD143, is a zinc-containing dipeptidy	
	carboxypeptidase widely distributed in mammalian tissues and is though to play a critical role	
	in blood pressure regulation. ACE gene is mapped to 17q23.3. This gene encodes an enzyme	
	involved in catalyzing the conversion of angiotensin I into a physiologically active peptide	
	angiotensin II. Angiotensin II is a potent vasopressor and aldosterone-stimulating peptide that	
	controls blood pressure and fluid-electrolyte balance. This enzyme plays a key role in the renin-	
	angiotensin system. Many studies have associated the presence or absence of a 287 bp Alu	
	repeat element in this gene with the levels of circulating enzyme or cardiovascular	
	pathophysiologies.	
	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 1	
	antibody Angiotensin I converting enzyme 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	
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	
	IHC-P: Concentration: 0.5-1 µg/mL, Tested Species: Human, Epitope Retrieval by Heat: Boiling	
	the paraffin sections in 10 mM citrate buffer, pH 6.0, for 20 mins is required for the staining of	
	formalin/paraffin sections.	
	Notes: Tested Species: Species with positive results. Predicted Species: Species predicted to be	
	fit for the product based on sequence similarities. Other applications have not been tested.	
	Optimal dilutions should be determined by end users.	

## **Application Details**

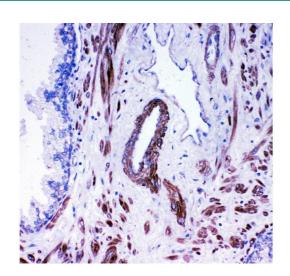
Comment:	Antibody can be supported by chemiluminescence kit ABIN921124 in WB, supported by	
	ABIN921231 in IHC(P).	
Restrictions:	For Research Use only	
Handling		
Format:	Lyophilized	
Reconstitution:	Add 0.2 mL of distilled water will yield a concentration of 500 µg/mL.	
Concentration:	500 μg/mL	
Buffer:	Each vial contains 5 mg BSA, 0.9 mg NaCl, 0.2 mg Na2HPO4, 0.05 mg Thimerosal, 0.05 mg Sodium azide.	
Preservative:	Thimerosal (Merthiolate), Sodium azide	
Precaution of Use:	This product contains Sodium azide and Thimerosal (Merthiolate): POISONOUS AND HAZARDOUS SUBSTANCES 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.	
Expiry Date:	12 months	
Publications		
Product cited in:	Yao, Zhao, Ou, Liang, Lin, Wang: "MicroRNA-214 Suppresses Osteogenic Differentiation of	
	Human Periodontal Ligament Stem Cells by Targeting ATF4." in: Stem cells international, Vol.	
	2017, pp. 3028647, (2017) (PubMed).	
	Wang, Wang, Dai, Chen, Yang, Dai, Ou, Wang, Lin: "Effects of Intermittent Administration of	
	Parathyroid Hormone (1-34) on Bone Differentiation in Stromal Precursor Antigen-1 Positive	
	Human Periodontal Ligament Stem Cells." in: <b>Stem cells international</b> , Vol. 2016, pp. 4027542, (2016) (PubMed).	
	Li, Chen, Peng, Zhou, Fang: "Pulsed electromagnetic fields protect the balance between	

adipogenesis and osteogenesis on steroid-induced osteonecrosis of femoral head at the precollapse stage in rats." in: **Bioelectromagnetics**, Vol. 35, Issue 3, pp. 170-80, (2014) (PubMed).

Song, Yu, Zhao, Wei, Liu, Hu, Zhao, Yang, Wu: "The time-dependent manner of sinusoidal electromagnetic fields on rat bone marrow mesenchymal stem cells proliferation, differentiation, and mineralization." in: **Cell biochemistry and biophysics**, Vol. 69, Issue 1, pp. 47-54, (2014) (PubMed).

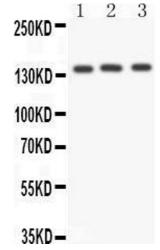
Mu, Lv, Wang, Ma, Ma, Liu, Yu, Mu: "Mechanical stress stimulates the osteo/odontoblastic differentiation of human stem cells from apical papilla via erk 1/2 and JNK MAPK pathways." in: **BioMed research international**, Vol. 2014, pp. 494378, (2014) (PubMed).

#### **Images**



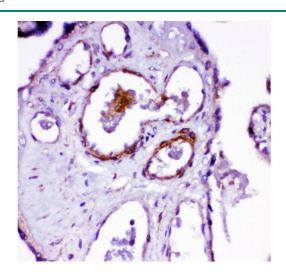
#### **Immunohistochemistry**

**Image 1.** Anti- ACE antibody, IHC(P) IHC(P): Human Prostatic Cancer Tissue



#### **Western Blotting**

Image 2. Anti- ACE antibody, Western blotting All lanes: Anti ACE () at 0.5ug/ml Lane 1: A549 Whole Cell Lysate at 40ug Lane 2: HELA Whole Cell Lysate at 40ug Lane 3: 22RV1 Whole Cell Lysate at 40ug Predicted bind size: 150KD Observed bind size: 150KD



#### **Immunohistochemistry**

Image 3. Anti- ACE antibody, IHC(P) IHC(P): Human Placenta Tissue

Please check the product details page for more images. Overall 4 images are available for ABIN3042841.