Datasheet for ABIN3016740

anti-Angiotensin I Converting Enzyme 1 antibody (AA 30-270)

3 Images

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Overview

Quantity:	100 µL
Target:	Angiotensin I Converting Enzyme 1 (ACE)
Binding Specificity:	AA 30-270
Reactivity:	Human
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This Angiotensin I Converting Enzyme 1 antibody is un-conjugated
Application:	Western Blotting (WB), Immunohistochemistry (IHC)

Product Details

Immunogen:	Recombinant fusion protein containing a sequence corresponding to amino acids 30-270 of human ACE11 (NP_690043.1).
Sequence:	EASQQVTVTH GTSSQATTSS QTTTHQATAH QTSAQSPNLV TDEAEASKFV EEYDRTSQVV WNEYAEANWN YNTNITTETS KILLQKNMQI ANHTLKYGTQ ARKFDVNQLQ NTTIKRIIKK VQDLERAALP AQELEEYNKI LLDMETTYSV ATVCHPNGSC LQLEPDLTNV MATSRKYEDL LWAWEGWRDK AGRAILQFYP KYVELINQAA RLNGYVDAGD SWRSMYETPS LEQDLERLFQ E
Isotype:	IgG
Cross-Reactivity:	Human, Mouse, Rat
Characteristics:	Polyclonal Antibodies
Purification:	Affinity purification

Target Details

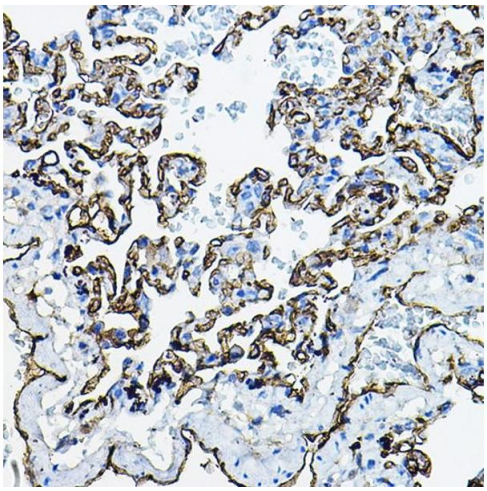
Target:	Angiotensin I Converting Enzyme 1 (ACE)
Alternative Name:	ACE (ACE Products)
Background:	This gene encodes an enzyme involved in catalyzing the conversion of angiotensin I into a physiologically active peptide angiotensin II. Angiotensin II is a potent vasopressor and aldosterone-stimulating 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. Multiple alternatively spliced transcript variants encoding different isoforms have been identified, and two most abundant spliced variants encode the somatic form and the testicular form, respectively, that are equally active.,ACE,ACE1,CD143,DCP,DCP1,angiotensin-converting enzyme,ICH,MVCD3,Cancer,Signal Transduction,Cell Biology & Developmental Biology,Ubiquitin,Endocrine & Metabolism,Immunology & Inflammation,CD markers,Stem Cells,Hematopoietic Progenitors,Cardiovascular,Blood,Serum Proteins,Hypoxia,ACE
Molecular Weight:	78 kDa/83 kDa/131 kDa/149 kDa
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,1:500 - 1:2000,IHC,1:50 - 1:200
Restrictions:	For Research Use only

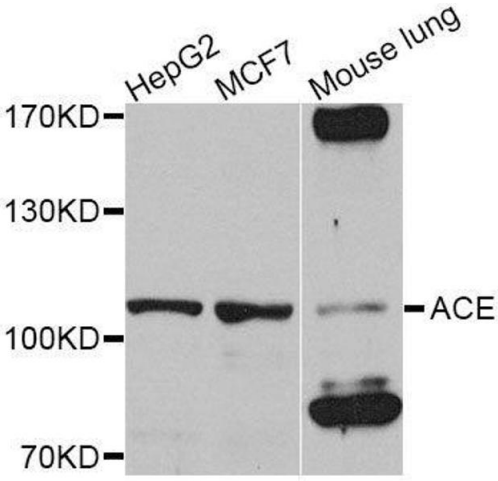
Handling

Buffer:	PBS with 0.02 % sodium azide,50 % glycerol, pH 7.3.
Preservative:	Sodium azide
Precaution of Use:	This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.
Storage:	-20 °C
Storage Comment:	Store at -20°C. Avoid freeze / thaw cycles.



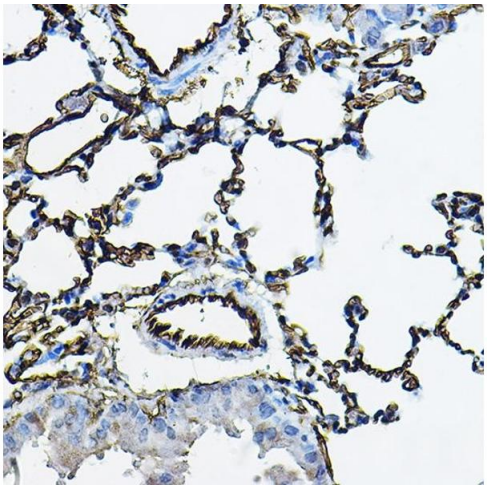
Immunohistochemistry

Image 1. Immunohistochemistry of paraffin-embedded rat lung using Rabbit pAb (ABIN3016739, ABIN3016740, ABIN3016741, ABIN1678526 and ABIN6219830) at dilution of 1:100 (40x lens).Perform high pressure antigen retrieval with 10 mM citrate buffer pH 6.0 before commencing with IHC staining protocol.



Western Blotting

Image 2. Western blot analysis of extracts of various cell lines, using ACE antibody.



Immunohistochemistry

Image 3. Immunohistochemistry of paraffin-embedded mouse lung using Rabbit pAb (ABIN3016739, ABIN3016740, ABIN3016741, ABIN1678526 and ABIN6219830) at dilution of 1:100 (40x lens).Perform high pressure antigen retrieval with 10 mM citrate buffer pH 6.0 before commencing with IHC staining protocol.

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