

Anti-ACE Antibody

Catalog # ABO11505

Product Information

Application	WB, IHC-P
Primary Accession	P12821
Host	Rabbit
Reactivity	Human
Clonality	Polyclonal
Format	Lyophilized
Description	Rabbit IgG polyclonal antibody for Angiotensin-converting enzyme(ACE) detection. Tested with WB, IHC-P in Human.
Reconstitution	Add 0.2ml of distilled water will yield a concentration of 500ug/ml.

Additional Information

Other Names	Angiotensin-converting enzyme, ACE, 3.2.1.-, 3.4.15.1, Dipeptidyl carboxypeptidase I, Kininase II, CD143, Angiotensin-converting enzyme, soluble form, ACE, DCP, DCP1
Calculated MW	149715 Da
Application Details	Immunohistochemistry(Paraffin-embedded Section), 0.5-1 µg/ml, Human, By Heat Western blot, 0.1-0.5 µg/ml, Human
Subcellular Localization	Angiotensin-converting enzyme, soluble form: Secreted.
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. .
Protein Name	Angiotensin-converting enzyme
Contents	Each vial contains 5mg BSA, 0.9mg NaCl, 0.2mg Na ₂ HPO ₄ , 0.05mg Thimerosal, 0.05mg Na ₃ .
Immunogen	A synthetic peptide corresponding to a sequence in the middle region of human Angiotensin Converting Enzyme 1(702-715aa TQARKFDVNQLQNT).
Purification	Immunogen affinity purified.
Cross Reactivity	No cross reactivity with other proteins
Storage	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

Sequence Similarities

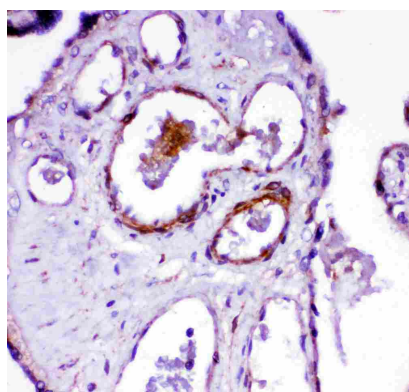
freezing and thawing.
Belongs to the peptidase M2 family.

Protein Information

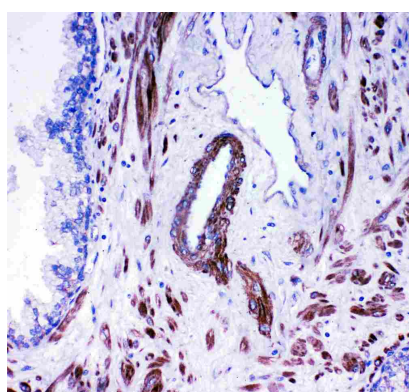
Background

Angiotensin I converting enzyme(ACE), also called DCP or CD143, is a zinc-containing dipeptidyl carboxypeptidase widely distributed in mammalian tissues and is thought 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.

Images



Anti- ACE antibody, ABO11505, IHC(P)IHC(P): Human Placenta Tissue



Anti- ACE antibody, ABO11505, IHC(P)IHC(P): Human Prostatic Cancer Tissue



Anti- ACE antibody, ABO11505, Western blottingAll lanes:
Anti Angiotensin Converting Enzyme 1 (ABO11505) at
0.5ug/mlLane 1: HELA Whole Cell Lysate at 40ugLane 2:
A549 Whole Cell Lysate at 40ugLane 3: 22RV1 Whole Cell
Lysate at 40ugPredicted bind size: 150KDObserved bind
size: 150KD

Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.