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ACE Antibody (Ascites)

Mouse Monoclonal Antibody (Mab)
Catalog # AM2111a

Specification

ACE Antibody (Ascites) - Product Information

Application	**WB,E**
Primary Accession	P12821
Other Accession	NP_000780
Reactivity	**Mouse**
Host	**Mouse**
Clonality	**Monoclonal**
Isotype	**IgG2a**
Calculated MW	**149715**
Antigen Region	**1274-1306**

ACE Antibody (Ascites) - Additional Information

Gene ID 1636

Other Names
Angiotensin-converting enzyme, ACE, 321-, Dipeptidyl carboxypeptidase I, Kininase II, CD143, Angiotensin-converting enzyme, soluble form, ACE, DCP, DCP1

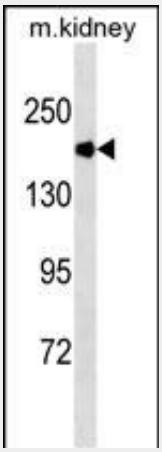
Target/Specificity
This ACE antibody is generated from mice immunized with a KLH conjugated synthetic peptide between 1274-1306 amino acids from human ACE.

Dilution
WB~~1:500~16000

Format
Mouse monoclonal antibody supplied in crude ascites with 0.09% (W/V) sodium azide.

Storage
Maintain refrigerated at 2-8°C for up to 2 weeks. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.

Precautions
ACE Antibody (Ascites) is for research use only and not for use in diagnostic or therapeutic procedures.



ACE Antibody (Ascites)(Cat. #AM2111a) western blot analysis in mouse kidney tissue lysates (35µg/lane).This demonstrates the ACE antibody detected the ACE protein (arrow).

ACE Antibody (Ascites) - 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.

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ACE Antibody (Ascites) - Protein Information

Name ACE

Synonyms DCP, DCP1

Function
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.

Cellular Location
[Angiotensin-converting enzyme, soluble form]: Secreted

Tissue Location
Ubiquitously expressed, with highest levels in lung, kidney, heart, gastrointestinal system and prostate. Isoform Testis-specific is expressed in spermatocytes and adult testis

ACE Antibody (Ascites) - Protocols

Provided below are standard protocols that you may find useful for product applications.

- Western Blot
- Blocking Peptides
- Dot Blot
- Immunohistochemistry
- Immunofluorescence
- Immunoprecipitation
- Flow Cytomety
- Cell Culture

ACE Antibody (Ascites) - References

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