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ACE Antibody (monoclonal) (M01)

Mouse monoclonal antibody raised against a partial recombinant ACE.
Catalog # AT1024a

Specification

ACE Antibody (monoclonal) (M01) - Product Information

Application	**WB, E**
Primary Accession	P12821
Other Accession	BC036375
Reactivity	**Human**
Host	**mouse**
Clonality	**Monoclonal**
Isotype	**IgG1 Kappa**
Calculated MW	**149715**

ACE Antibody (monoclonal) (M01) - 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

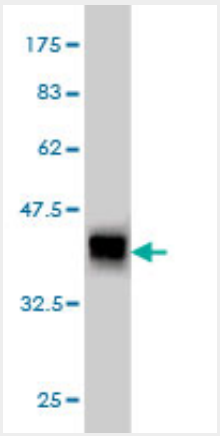
Target/Specificity
ACE (AAH36375, 592 a.a. ~ 701 a.a) partial recombinant protein with GST tag. MW of the GST tag alone is 26 KDa.

Dilution
WB~~1:500~1000

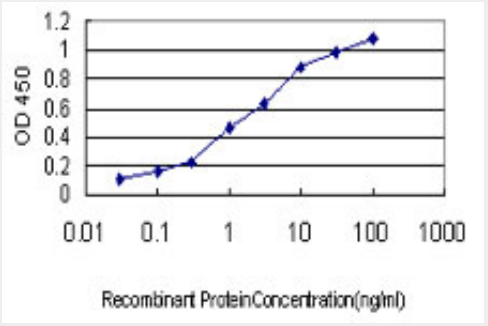
Format
Clear, colorless solution in phosphate buffered saline, pH 7.2 .

Storage
Store at -20°C or lower. Aliquot to avoid repeated freezing and thawing.

Precautions
ACE Antibody (monoclonal) (M01) is for research use only and not for use in diagnostic or therapeutic procedures.



Antibody Reactive Against Recombinant Protein.Western Blot detection against Immunogen (37.73 KDa) .



Detection limit for recombinant GST tagged ACE is approximately 0.03ng/ml as a capture antibody.

ACE Antibody (monoclonal) (M01) - 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

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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

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 Antibody (monoclonal) (M01) - References

1.Phosphorylation of the Eukaryotic Translation Initiation Factor 4E-Transporter (4E-T) by c-Jun N-Terminal Kinase Promotes Stress-Dependent P-Body Assembly.Cargnello M, Tcherkezian J, Dorn JF, Huttlin EL, Maddox PS, Gygi SP, Roux PP.Mol Cell Biol. 2012 Nov;32(22):4572-84. doi: 10.1128/MCB.00544-12. Epub 2012 Sep 10.2.The dual organization of P-bodies revealed by immunoelectron microscopy and electron tomography.Cougot N, Cavalier A, Thomas D, Gillet R.J Mol Biol. 2012 Apr 3. [Epub ahead of print]3.Drosophila genome-wide RNAi screen identifies multiple regulators of HIF-dependent transcription in hypoxia.Dekanty A, Romero NM, Bertolin AP, Thomas MG, Leishman CC, Perez-Perri JI, Boccaccio GL, Wappner P.PLoS Genet. 2010 Jun 24;6(6):e1000994.