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ACE Antibody (monoclonal) (M01)

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

Product Information

Application	WB, E
Primary Accession	P12821
Other Accession	BC036375
Reactivity	Human
Host	mouse
Clonality	monoclonal
Isotype	IgG1 Kappa
Clone Names	6A4
Calculated MW	149715

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 E~~N/A
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.

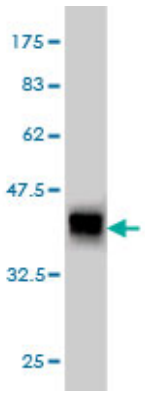
Background

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.

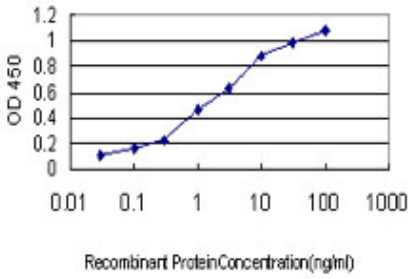
References

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.

Images



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.