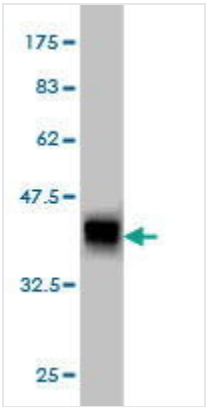
ACE Antibody – Mouse Monoclonal

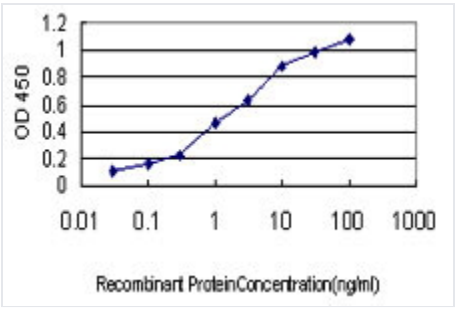
PRODUCT OVERVIEW

Product Name	ACE, Monoclonal Antibody
Full Product Name	ACE (Angiotensin-converting Enzyme, Dipeptidyl Carboxypeptidase I, Kininase II, CD143, Angiotensin-converting Enzyme, Soluble Form, DCP, DCP1)
Product Gene Name	anti-ACE antibody
Clonality	Monoclonal
Isotype	IgG1,k
Clone Number	6A4
Host	Mouse
Species Reactivity	Human
Form/Format	Supplied as a liquid in PBS, pH 7.2. No preservative added. Labeled with Allophycocyanin (APC).
Purity/Purification	Purified by Protein A Affinity Chromatography.
Specificity	Recognizes human ACE.
Preparation and Storage	Store product at 4 degree C in the dark. DO NOT FREEZE! Stable at 4 degree C for 12 months after receipt as an undiluted liquid. Dilute required amo immediate use. Further dilutions can be made in assay buffer. Caution: APC conjugates are sensitive to light. For maximum recovery of product, centrif vial prior to removing the cap.
Immunogen	Partial recombinant corresponding to aa592-701 from human ACE (AAH36375) with GST tag. MW of the GST tag alone is 26kD.
Immunogen Sequence	RLATAMKLGFSRPWPEAMQLITGQPNMSASAMLSYFKPLLDWLRTENELHGEKLGWPQYNWTPNSDDFYNETETKIFLQFYDQTGIWDHGAPHLLPPSC
Conjugate	APC
Product Categories/Family for anti-ACE antibody	Antibodies; Enzymes; Carboxypeptidase
Applications Tested/Suitable for anti-ACE antibody	ELISA (EIA), Western Blot (WB)
Application Notes for anti-ACE antibody	Applications are based on unconjugated antibody.
Related Product Information for anti-ACE antibody	ACE is an enzyme involved in catalyzing the conversion of angiotensin I into a physiologically active peptide angiotensin II. Angiotensin II is a potent va aldosterone-stimulating peptide that controls blood pressure and fluid-electrolyte balance. This enzyme plays a key role in the renin-angiotensin system have associated the presence or absence of a 287 bp Alu repeat element in this gene with the levels of circulating enzyme or cardiovascular pathophys most abundant alternatively spliced variants of this gene encode two isozymes-the somatic form and the testicular form that are equally active.
Product References and Citations for anti-ACE antibody	1. The dual organization of P-bodies revealed by immunoelectron microscopy and electron tomography. Cougot N, Cavalier A, Thomas D, Gillet R.J Mo 3. 2. Drosophila genome-wide RNAi screen identifies multiple regulators of HIF-dependent transcription in hypoxia. Dekanty A, Romero NM, Bertolin AI Leishman CC, Perez-Perri JI, Boccaccio GL, Wappner P.PLoS Genet. 2010 Jun 24;6(6):e1000994.

Other Notes	Small volumes of anti-ACE antibody vial(s) may occasionally become entrapped in the seal of the product vial during shipment and storage. If necessar centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the container`s cap. Certain products may require to ship with dry ice and additional apply.
Searchable Terms for ACE purchase	MBS6135138 is an antibody targeting ACE. Also known as ACE (Angiotensin-converting Enzyme, Dipeptidyl Carboxypeptidase I, Kininase II, CD143, A converting Enzyme, Soluble Form, DCP, DCP1) APC. Reactive in Human. Host: Mouse.



Western Blot (WB) of anti-ACE antibody
Western Blot detection against Immunogen (37.73kD).



Testing Data of anti-ACE antibody
Detection limit for recombinant GST tagged ACE is ~0.03ng/ml as a capture antibody

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for ACE. It may not necessarily be applicable to this product.

NCBI GI #	34783483
NCBI GeneID	1636
NCBI Accession #	BC036375
NCBI Related Accession #	AAH36375
UniProt Related Accession #	P12821
NCBI Official Full Name	Homo sapiens angiotensin I converting enzyme (peptidyl-dipeptidase A) 1, mRNA
NCBI Official Synonym Full Names	angiotensin I converting enzyme
NCBI Official Symbol	ACE
NCBI Official Synonym Symbols	DCP; ACE1; DCP1; CD143
Protein Family	Accessory cholera enterotoxin
NCBI Protein Information	angiotensin-converting enzyme
NCBI Summary for ACE	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. [provided by RefSeq, May 2010]
Research Articles on ACE	**1.** Findings show that ACE1 catalytic domain activity is significantly altered in Alzheimer disease.
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