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Product datasheet for TA392450M

Angiotensin Converting Enzyme 1 (ACE) Rabbit Polyclonal Antibody

Product data:

| Product Type: | Primary Antibodies |
|-------------------------|--|
| Applications: | WB |
| Recommended Dilution: | WB: 1:1000~1:2000 |
| Reactivity: | Rat, Mouse |
| Host: | Rabbit |
| lsotype: | lgG |
| Clonality: | Polyclonal |
| Immunogen: | Recombinant protein of human CD143. |
| Specificity: | CD143 polyclonal antibody detects endogenous levels of CD143 protein. |
| Formulation: | Rabbit lgG, 1mg/ml in PBS with 0.02% sodium azide, 50% glycerol, pH7.2. |
| Concentration: | 1mg/ml |
| Conjugation: | Unconjugated |
| Storage: | Store at 4°C short term. Aliquot and store at -20°C long term. Avoid freeze-thaw cycles. |
| Stability: | 1 year |
| Predicted Protein Size: | ~ 170 kDa |
| Gene Name: | angiotensin I converting enzyme |
| Database Link: | <u>P12821</u> |
| | |



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GRIGENE Angiotensin Converting Enzyme 1 (ACE) Rabbit Polyclonal Antibody – TA392450M

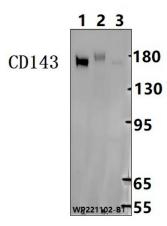
Background: Dipeptidyl carboxypeptidase that removes dipeptides from the C-terminus of a variety of circulating hormones, such as angiotensin I, bradykinin or enkephalins, thereby playing a key role in the regulation of blood pressure, electrolyte homeostasis or synaptic plasticity Composed of two similar catalytic domains, each possessing a functional active site, with different selectivity for substrates .Plays a major role in the angiotensin-renin system that regulates blood pressure and sodium retention by the kidney by converting angiotensin I to angiotensin II, resulting in an increase of the vasoconstrictor activity of angiotensin .Also able to inactivate bradykinin, a potent vasodilator, and therefore enhance the blood pressure response. Acts as a regulator of synaptic transmission by mediating cleavage of neuropeptide hormones, such as substance P, neurotensin or enkephalins. Catalyzes degradation of different enkephalin neuropeptides (Met-enkephalin, Leu-enkephalin, Met-enkephalin-Arg-Phe and possibly Met-enkephalin-Arg-Gly-Leu). Acts as a regulator of synaptic plasticity in the nucleus accumbens of the brain by mediating cleavage of Met-enkephalin-Arg-Phe, a strong ligand of Mu-type opioid receptor OPRM1, into Met-enkephalin (By similarity). Met-enkephalin-Arg-Phe cleavage by ACE decreases activation of OPRM1, leading to long-term synaptic potentiation of glutamate release (By similarity). Also acts as a regulator of hematopoietic stem cell differentiation by mediating degradation of hemoregulatory peptide N-acetyl-SDKP (AcSDKP). Acts as a regulator of cannabinoid signaling pathway by mediating degradation of hemopressin, an antagonist peptide of the cannabinoid receptor CNR1.Involved in amyloidbeta metabolism by catalyzing degradation of Amyloid-beta protein 40 and Amyloid-beta protein 42 peptides, thereby preventing plaque formation. Catalyzes cleavage of cholecystokinin (maturation of Cholecystokinin-8 and Cholecystokinin-5) and Gonadoliberin-1 (both maturation and degradation) hormones.Degradation of hemoregulatory peptide Nacetyl-SDKP (AcSDKP) and amyloid-beta proteins is mediated by the N-terminal catalytic domain, while angiotensin I and cholecystokinin cleavage is mediated by the C-terminal catalytic region. ACE; Angiotensin-converting enzyme; Angiotensin-converting enzyme, soluble form; CD143; Synonyms: Dipeptidyl carboxypeptidase; Kininase II

Note: For research use only, not for use in diagnostic procedure.

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Product images:



WesWestern blot (WB) analysis of CD143 polyclonal antibody at 1:2000 dilution Lane1:The lung tissue lysate of Mouse(30ug) Lane2:The lung tissue lysate of Rat(30ug) Lane3:The kidney tissue lysate of Mouse(30ug)

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