

Product datasheet

Anti-Angiotensin Converting Enzyme 1 antibody [EPR2757] ab75762

Recombinant RabMAb

[5 References](#) [3 Images](#)

Overview

Product name	Anti-Angiotensin Converting Enzyme 1 antibody [EPR2757]
Description	Rabbit monoclonal [EPR2757] to Angiotensin Converting Enzyme 1
Host species	Rabbit
Tested applications	Suitable for: WB, IHC-P Unsuitable for: ICC or IP
Species reactivity	Reacts with: Mouse, Human
Immunogen	within Human Angiotensin Converting Enzyme 1 aa 1250 to the C-terminus (C terminal). The exact sequence is proprietary. Database link: P12821
Positive control	Fetal kidney, fetal heart and fetal lung lysates; human kidney and spleen tissues.
General notes	Rat: We have preliminary internal testing data to indicate this antibody may not react with this species. Please contact us for more information. Our RabMAb [®] technology is a patented hybridoma-based technology for making rabbit monoclonal antibodies. For details on our patents, please refer to RabMab[®] patents . This product is a recombinant rabbit monoclonal antibody .

Properties

Form	Liquid
Storage instructions	Shipped at 4°C. Upon delivery aliquot and store at -20°C. Avoid freeze / thaw cycles.
Storage buffer	pH: 7.20 Preservative: 0.01% Sodium azide Constituents: 9% PBS, 40% Glycerol, 0.05% BSA, 50% Tissue culture supernatant
Purity	Tissue culture supernatant
Clonality	Monoclonal
Clone number	EPR2757

Isotype

IgG

Applications

Our [Abpromise guarantee](#) covers the use of **ab75762** in the following tested applications.

The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

Application	Abreviews	Notes
WB		1/500 - 1/1000. Detects a band of approximately 195 kDa (predicted molecular weight: 150 kDa).
IHC-P		1/100 - 1/250. Perform heat mediated antigen retrieval before commencing with IHC staining protocol.

Application notes

Is unsuitable for ICC or IP.

Target

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.

Tissue specificity

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

Involvement in disease

Ischemic stroke (ISCHSTR) [MIM:601367]: A stroke is an acute neurologic event leading to death of neural tissue of the brain and resulting in loss of motor, sensory and/or cognitive function. Ischemic strokes, resulting from vascular occlusion, is considered to be a highly complex disease consisting of a group of heterogeneous disorders with multiple genetic and environmental risk factors. Note=Disease susceptibility is associated with variations affecting the gene represented in this entry.

Renal tubular dysgenesis (RTD) [MIM:267430]: Autosomal recessive severe disorder of renal tubular development characterized by persistent fetal anuria and perinatal death, probably due to pulmonary hypoplasia from early-onset oligohydramnios (the Potter phenotype). Note=The disease is caused by mutations affecting the gene represented in this entry.

Microvascular complications of diabetes 3 (MVCD3) [MIM:612624]: Pathological conditions that develop in numerous tissues and organs as a consequence of diabetes mellitus. They include diabetic retinopathy, diabetic nephropathy leading to end-stage renal disease, and diabetic neuropathy. Diabetic retinopathy remains the major cause of new-onset blindness among diabetic adults. It is characterized by vascular permeability and increased tissue ischemia and angiogenesis. Note=Disease susceptibility is associated with variations affecting the gene represented in this entry.

Intracerebral hemorrhage (ICH) [MIM:614519]: A pathological condition characterized by bleeding into one or both cerebral hemispheres including the basal ganglia and the cerebral cortex. It is often associated with hypertension and craniocerebral trauma. Intracerebral bleeding is a common cause of stroke. Note=Disease susceptibility is associated with variations affecting the gene represented in this entry.

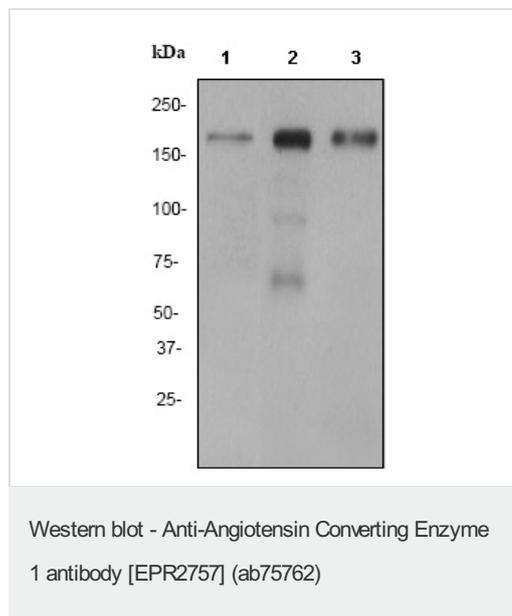
Sequence similarities

Belongs to the peptidase M2 family.

Post-translational modifications

Phosphorylated by CK2 on Ser-1299; which allows membrane retention.

Images



All lanes : Anti-Angiotensin Converting Enzyme 1 antibody [EPR2757] (ab75762) at 1/1000 dilution

Lane 1 : fetal kidney lysate

Lane 2 : fetal heart lysate

Lane 3 : fetal lung lysate

Lysates/proteins at 10 µg per lane.

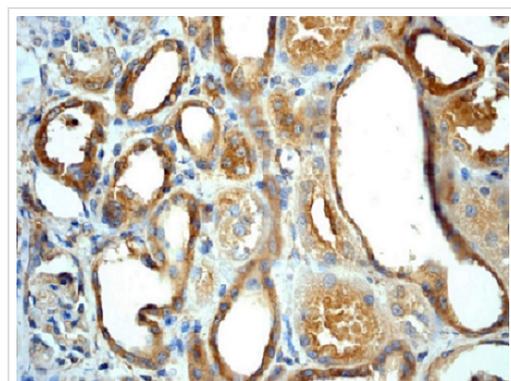
Secondary

All lanes : goat anti-rabbit HRP at 1/2000 dilution

Predicted band size: 150 kDa

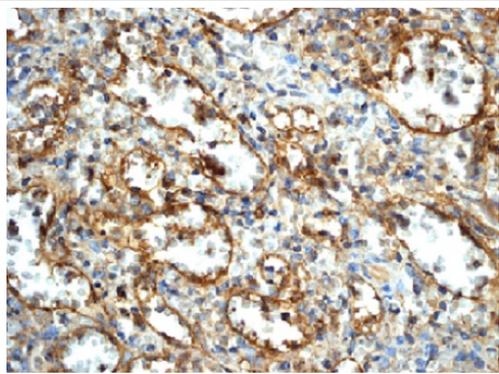
Observed band size: 195 kDa

[why is the actual band size different from the predicted?](#)



ab75762 at 1/100 dilution staining Angiotensin Converting Enzyme 1 in human kidney by Immunohistochemistry, Paraffin-embedded tissue.

Perform heat mediated antigen retrieval before commencing with IHC staining protocol.



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-Angiotensin Converting Enzyme 1 antibody [EPR2757] (ab75762)

ab75762 at 1/100 dilution staining Angiotensin Converting Enzyme 1 in human spleen by Immunohistochemistry, Paraffin-embedded tissue. Note positive staining of endothelial cells.

Perform heat mediated antigen retrieval before commencing with IHC staining protocol.

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