abcam

Product datasheet

Anti-Angiotensin Converting Enzyme 1 antibody [EPR2757] ab75762

敲除验证 重组 RabMAb

13 References 7 图像

概述

产品名称	Anti-Angiotensin Converting Enzyme 1抗体[EPR2757]
描述	兔单克隆抗体[EPR2757] to Angiotensin Converting Enzyme 1
宿主	Rabbit
经测试应用	**适用于:** ELISA, WB, IHC-P **不适用于:** Flow Cyt,ICC/IF or IP
种属反应性	**与反应:** Human **预测可用于:** Mouse
免疫原	Synthetic peptide. This information is proprietary to Abcam and/or its suppliers.
阳性对照	Fetal kidney, fetal heart and fetal lung lysates; human kidney and spleen tissues.
常规说明	This product is a recombinant monoclonal antibody, which offers several advantages including: - High batch-to-batch consistency and reproducibility - Improved sensitivity and specificity - Long-term security of supply - Animal-free production For more information **see here**. Our RabMAb® technology is a patented hybridoma-based technology for making rabbit monoclonal antibodies. For details on our patents, please refer to **RabMAb® patents**. Rat: We have preliminary internal testing data to indicate this antibody may not react with this species. Please contact us for more information.

性能

形式	Liquid
存放说明	Shipped at 4°C. Upon delivery aliquot and store at -20°C. Avoid freeze / thaw cycles.
存储溶液	pH: 7.20 Preservative: 0.01% Sodium azide Constituents: 9% PBS, 40% Glycerol (glycerin, glycerine), 0.05% BSA, 50% Tissue culture supernatant

纯度	Protein A purified
克隆	单克隆
克隆编号	EPR2757
同种型	IgG

应用

The Abpromise guarantee Abpromise™承诺保证使用ab75762于以下的经测试应用

"应用说明"部分 下显示的仅为推荐的起始稀释度;实际最佳的稀释度/浓度应由使用者检定。

应用	Ab评论	说明
ELISA		Use a concentration of 0.002 - 2 µg/ml.
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.

应用说明 Is unsuitable for Flow Cyt,ICC/IF or IP.

靶标

功能 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.

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

疾病相关 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

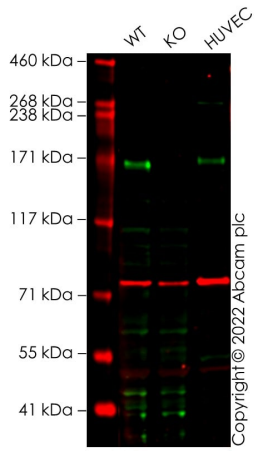
into one or both cerebral hemispheres including the basal ganglia and the cerebral cortex. It is often associated with hypertension and craniocerebral trauma. Intracerebral bleeding is a common cause of stroke. Note=Disease susceptibility is associated with variations affecting the gene represented in this entry.

序列相似性 Belongs to the peptidase M2 family.

翻译后修饰 Phosphorylated by CK2 on Ser-1299; which allows membrane retention.

细胞定位 Secreted and Cell membrane.

图片



Western blot - Anti-Angiotensin Converting Enzyme 1 antibody [EPR2757] (ab75762)

All lanes : Anti-Angiotensin Converting Enzyme 1 antibody [EPR2757] (ab75762) at 1/500 dilution

Lane 1 : SKNFI cell lysate
Lane 2 : Ace knockout SKNFI cell lysate
Lane 3 : HUVEC cell lysate

Lysates/proteins at 20 µg per lane.

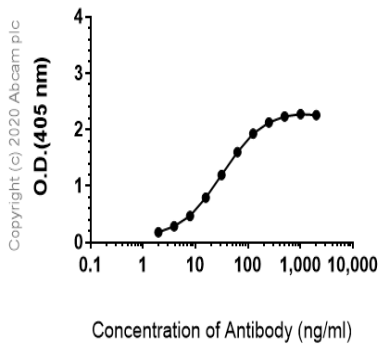
Secondary
All lanes : Secondary antibodies used were Goat anti-Rabbit IgG H&L 800CW and Goat anti-Mouse IgG H&L 680RD at 1/20000 dilution

Performed under reducing conditions.

Predicted band size: 150 kDa
Observed band size: 170 kDa

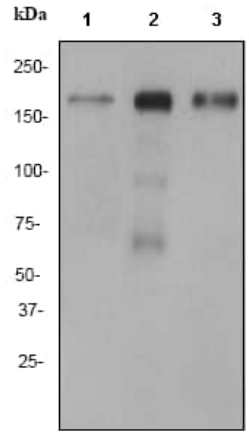
Anti-Angiotensin Converting Enzyme 1 antibody [EPR2757] staining at 1/500 dilution, shown in green; Mouse anti-CANX [CANX/1543] (**ab238078**) loading control staining at 1/20000 dilution, shown in red. In Western blot, ab75762 was shown to bind specifically to Angiotensin Converting Enzyme 1. A band was observed at 170 kDa in wild-type SKNFI cell lysates with no signal observed at this size in Ace knockout cell line. To generate this image, wild-type and Ace knockout SKNFI cell lysates were analysed. First, samples were run on an SDS-PAGE gel then transferred onto a nitrocellulose membrane. Membranes were blocked in fluorescent western blot (TBS-based) blocking solution before incubation with primary antibodies overnight at 4 °C. Blots were washed four times in TBS-T, incubated with secondary

antibodies for 1 h at room temperature, washed again four times then imaged. Secondary antibodies used were Goat anti-Rabbit IgG H&L 800CW and Goat anti-Mouse IgG H&L 680RD at 1/20000 dilution.



ELISA - Anti-Angiotensin Converting Enzyme 1 antibody [EPR2757] (ab75762)

ELISA analysis of Human ACE (angiotensin converting enzyme) (membrane form only) recombinant protein at 250ng/ml with ab75762. An Alkaline Phosphatase-conjugated AffiniPure Goat Anti-Rabbit IgG (H+L) at 1/2500 dilution was used as the secondary antibody.



Western blot - Anti-Angiotensin Converting Enzyme 1 antibody [EPR2757] (ab75762)

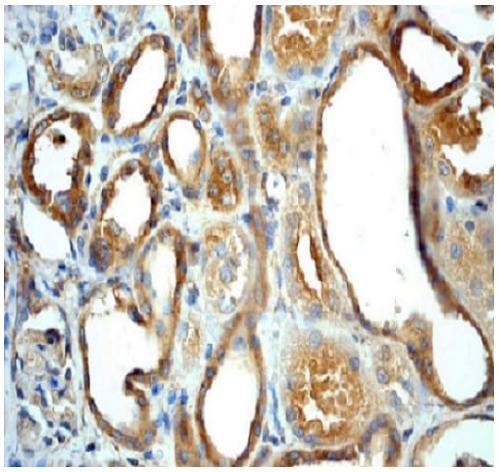
All lanes : Anti-Angiotensin Converting Enzyme 1 antibody [EPR2757] (ab75762) at 1/1000 dilution

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

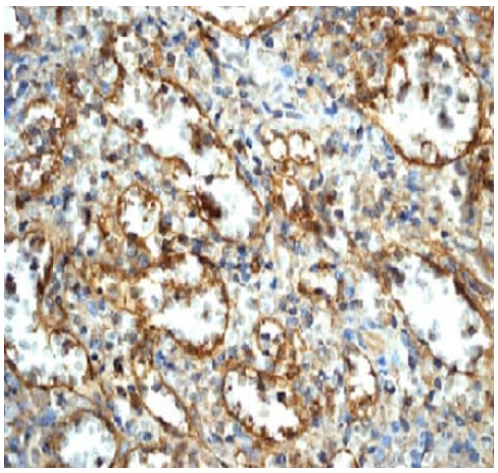
Predicted band size: 150 kDa
Observed band size: 195 kDa



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 kidney by Immunohistochemistry, Paraffin-embedded tissue.

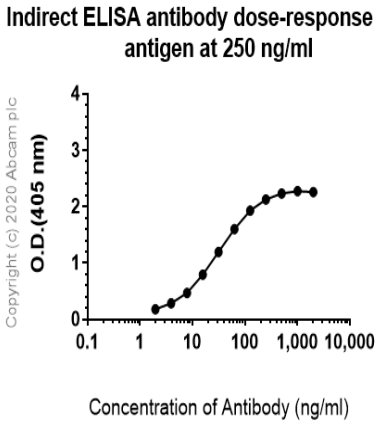
Perform heat mediated antigen retrieval before commencing with IHC staining protocol.



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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Anti-Angiotensin Converting Enzyme 1 antibody [EPR2757] (ab75762)

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