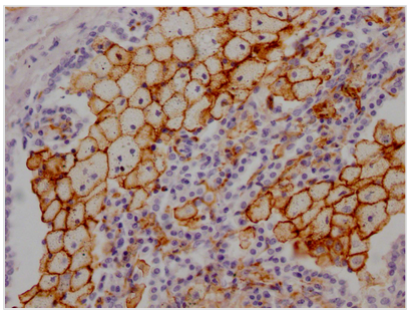
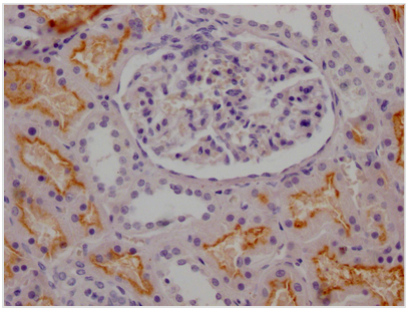
ACE Antibody

Product Code	CSB-RA268157A0HU
Storage	Upon receipt, store at -20°C or -80°C. Avoid repeated freeze.
Uniprot No.	P12821
Immunogen	A synthesized peptide derived from human ACE1
Species Reactivity	Human
Tested Applications	ELISA, IHC; Recommended dilution: IHC:1:50-1:200
Relevance	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.
Form	Liquid
Conjugate	Non-conjugated
Storage Buffer	Rabbit IgG in phosphate buffered saline, pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol.
Purification Method	Affinity-chromatography
Isotype	Rabbit IgG
Clonality	Monoclonal
Product Type	Recombinant Antibody
Immunogen Species	Homo sapiens (Human)
Research Area	Cancer; Cardiovascular; Cell biology; Metabolism; Signal transduction; Stem cells
Gene Names	ACE
Accession NO.	2H8

Image



IHC image of CSB-RA268157A0HU diluted at 1:100 and staining in paraffin-embedded human lung tissue performed on a Leica BondTM system. After dewaxing and hydration, antigen retrieval was mediated by high pressure in a citrate buffer (pH 6.0). Section was blocked with 10% normal goat serum 30min at RT. Then primary antibody (1% BSA) was incubated at 4°C overnight. The primary is detected by a Goat anti-rabbit IgG polymer labeled by HRP and visualized using 0.05% DAB.



IHC image of CSB-RA268157A0HU diluted at 1:100 and staining in paraffin-embedded human kidney tissue performed on a Leica BondTM system. After dewaxing and hydration, antigen retrieval was mediated by high pressure in a citrate buffer (pH 6.0). Section was blocked with 10% normal goat serum 30min at RT. Then primary antibody (1% BSA) was incubated at 4°C overnight. The primary is detected by a Goat anti-rabbit IgG polymer labeled by HRP and visualized using 0.05% DAB.

Description

The zinc dicarboxypeptidase ACE is a key component of the renin-angiotensin system. It regulates blood pressure by cleaving angiotensin I (Ang I), a powerful vasoconstrictor, into angiotensin II (Ang II). Many studies have shown that ACE is a potent pro-inflammatory regulator that modulates chemokines and adhesion molecules to aid in the recruitment of inflammatory cells into tissues. Evidence has shown that ACE facilitates the immune activation of myeloid cells.

CUSABIO designed the vector clones for the expression of a recombinant ACE antibody in mammalian cells. The vector clones were obtained by inserting the ACE antibody heavy and light chains into the plasma vectors. The recombinant ACE antibody was purified from the culture medium through Affinity-chromatography. It can be used to detect ACE protein from Human in the ELISA, IHC.