

ACE2 Antibody

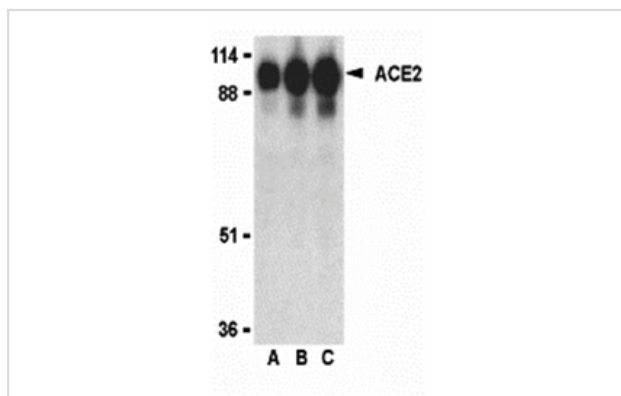
Catalog No: #24214

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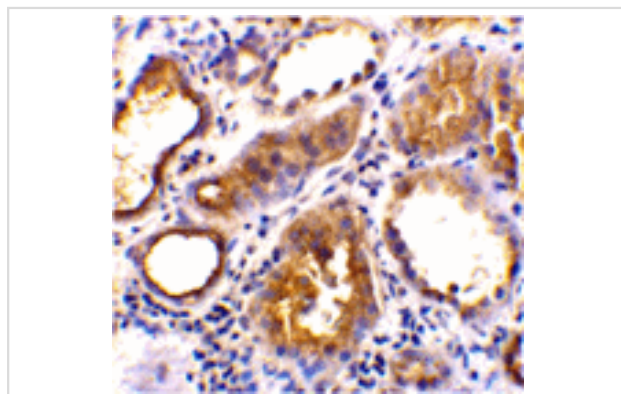
Description

Product Name	ACE2 Antibody
Host Species	Rabbit
Clonality	Polyclonal
Purification	Affinity chromatography purified via peptide column
Applications	ELISA WB IHC
Species Reactivity	Hu Ms
Specificity	Anti-ACE2 has no cross response to ACE1.
Immunogen Type	Peptide
Immunogen Description	Raised against a synthetic peptide corresponding to amino acids near the center of human ACE2.
Target Name	ACE2
Accession No.	Swiss-Prot:Q9BYF1 Gene ID:59272
Uniprot	Q9BYF1
GeneID	59272;
Concentration	1mg/ml
Formulation	Supplied in PBS containing 0.02% sodium azide.
Storage	Can be stored at -20°C, stable for one year. As with all antibodies care should be taken to avoid repeated freeze thaw cycles. Antibodies should not be exposed to prolonged high temperatures.

Images



Western blot analysis of ACE2 in human kidney lysate with ACE2 antibody at (A) 0.5, (B) 1 and (C) 2 ug/mL.



Immunohistochemical staining of human kidney tissue using ACE2 antibody at 2 ug/mL.

Background

Angiotensin-converting enzyme 2 (ACE2) plays a central role in vascular, renal, and myocardial physiology. In contrast to its homolog ACE, ACE2 expression is restricted to heart, kidney, and testis. Recently, ACE2 has also been shown to be a functional receptor of the SARS coronavirus. The normal function of ACE2 is to convert the inactive vasoconstrictor angiotensin I (AngI) to Ang1-9 and the active form AngII to Ang1-7, unlike ACE, which converts AngI to AngII. While the role of these vasoactive peptides is not well understood, lack of ACE2 expression in *ace2-/ace2-* mice leads to severely reduced cardiac contractility, indicating its importance in regulating heart function.

Note: This product is for in vitro research use only