Datasheet for ABIN499191

anti-ACE2 antibody (C-Term)

2 Images

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Overview

Quantity:	0.1 mg
Target:	ACE2
Binding Specificity:	C-Term
Reactivity:	Human
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This ACE2 antibody is un-conjugated
Application:	Western Blotting (WB), Immunohistochemistry (Paraffin-embedded Sections) (IHC (p)), Enzyme Immunoassay (EIA)

Product Details

Immunogen:	Human ACE2 (C-Terminus) Peptide
Isotype:	IgG
Specificity:	ACE2 antibody was raised against a synthetic peptide corresponding to amino acids near the C-terminus of human ACE2. Anti-ACE2 has no cross response to ACE1.
Purification:	Affinity chromatography purified via peptide column

Target Details

Target:	ACE2
Alternative Name:	ACE2 (ACE2 Products)

Target Details

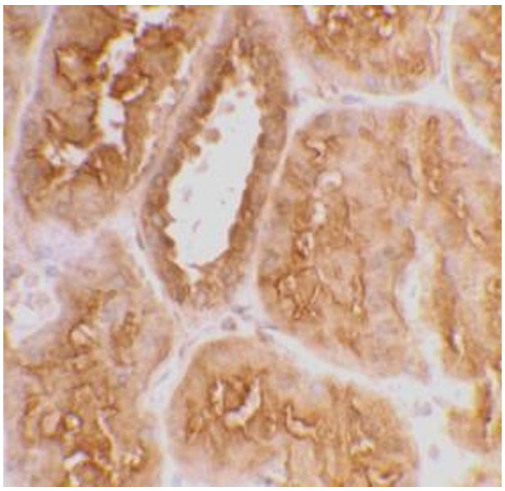
Background:	Angiotensin-converting enzyme 2 (ACE2) plays a central role in vascular, renal, and myocardial physiology (1-2). In contrast to its homolog ACE, ACE2 expression is restricted to heart, kidney, and testis. Recently. ACE2 has also been shown to be a functional receptor of the SARS coronavirus (3). 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 (4).Synonyms: ACE-related carboxypeptidase, Angiotensin-converting enzyme 2, Angiotensin-converting enzyme homolog
Gene ID:	59272
NCBI Accession:	NP_068576
UniProt:	Q9BYF1
Pathways:	ACE Inhibitor Pathway, Peptide Hormone Metabolism, Regulation of Systemic Arterial Blood Pressure by Hormones, Feeding Behaviour

Application Details

Application Notes:	ELISA. Western Blot: ACE2 antibody can be used for the detection of ACE2 at 0.5 to 2 µg/mL. A 90 kDa band can be detected. Immunohistochemistry. Other applications not tested. Optimal dilutions are dependent on conditions and should be determined by the user.
Restrictions:	For Research Use only

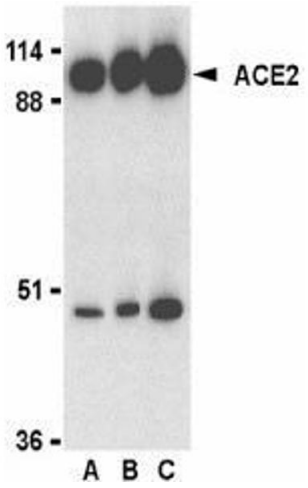
Handling

Buffer:	PBS containing 0.02 % sodium azide.
Preservative:	Sodium azide
Precaution of Use:	This product contains sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.
Storage:	4 °C
Storage Comment:	Store the antibody undiluted at 2-8 °C.



Immunohistochemistry (Paraffin-embedded Sections)

Image 1. Immunohistochemical staining of human kidney tissue using AP30007PU-N ACE2 antibody at 2 µg/ml.



Western Blotting

Image 2. Western blot analysis of ACE2 in human kidney lysate with AP30007PU-N ACE2 antibody at 0.5 (lane A), 1 (lane B), and 2 (lane C) µg/ml, respectively.