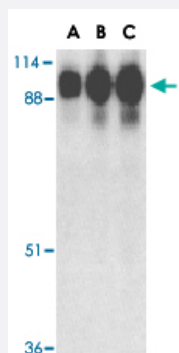


ACE2 polyclonal antibody

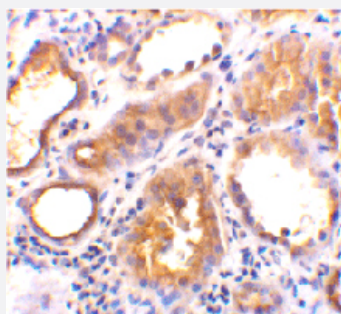
Catalog # PAB13443 Size 100 ug

Applications



Western Blot (Tissue lysate)

Western blot analysis of ACE2 in human kidney tissue lysate with ACE2 polyclonal antibody (Cat # PAB13443) at (A) 0.5, (B) 1 and (C) 2 ug/mL .



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections)

Immunohistochemical staining of human kidney tissue using ACE2 polyclonal antibody (Cat # PAB13443) at 2 ug/mL .

Specification

Product Description	Rabbit polyclonal antibody raised against synthetic peptide of ACE2.
Immunogen	A synthetic peptide corresponding to internal region of human ACE2.
Host	Rabbit
Reactivity	Human, Mouse
Specificity	Anti-ACE2 has no cross response to ACE1.
Form	Liquid

Recommend Usage	Western Blot (0.5-2 ug/mL) The optimal working dilution should be determined by the end user.
Storage Buffer	In PBS (0.02% sodium azide)
Storage Instruction	Store at 4°C for three months. For long term storage store at -20°C. Aliquot to avoid repeated freezing and thawing.
Note	This product contains sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.

Applications

- Western Blot (Tissue lysate)

Western blot analysis of ACE2 in human kidney tissue lysate with ACE2 polyclonal antibody (Cat # PAB13443) at (A) 0.5, (B) 1 and (C) 2 ug/mL .

- Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections)

Immunohistochemical staining of human kidney tissue using ACE2 polyclonal antibody (Cat # PAB13443) at 2 ug/mL .

Gene Info — ACE2

Entrez GeneID	59272
Protein Accession#	NP_068576
Gene Name	ACE2
Gene Alias	ACEH, DKFZp434A014
Gene Description	angiotensin I converting enzyme (peptidyl-dipeptidase A) 2
Omim ID	300335
Gene Ontology	Hyperlink
Gene Summary	The protein encoded by this gene belongs to the angiotensin-converting enzyme family of dipeptidyl carboxypeptidases and has considerable homology to human angiotensin 1 converting enzyme. This secreted protein catalyzes the cleavage of angiotensin I into angiotensin 1-9, and angiotensin II into the vasodilator angiotensin 1-7. The organ- and cell-specific expression of this gene suggests that it may play a role in the regulation of cardiovascular and renal function, as well as fertility. In addition, the encoded protein is a functional receptor for the spike glycoprotein of the human coronaviruses SARS and HCoV-NL63. [provided by RefSeq]
Other Designations	ACE-related carboxypeptidase OTTHUMP00000022963 angiotensin I converting enzyme 2 angiotensin converting enzyme-like protein

Publication Reference

- [Renal angiotensin I-converting enzyme-deficient mice are protected against aristolochic acid nephropathy.](#)

Annett Juretzko, Antje Steinbach, Jeannine Witte, Anke Hannemann, Bärbel Miehe, Florian Siegerist, Carmen Wolke, Sylvia Stracke, Rainer Rettig.

Pflügers Archiv 2023 Mar; 475(3):391.

Application: WB, Mouse, Mouse renal

- [The Angiotensin-\(1-7\)/Mas axis improves pancreatic \$\beta\$ -cell function in vitro and in vivo.](#)

Sahr A, Wolke C, Maczewsky J, Krippeit-Drews P, Tetzner A, Drews G, Venz S, Gürtler S, van den Brandt J, Berg S, Döring P, Dombrowski F, Walther T, Lendeckel U.

Endocrinology 2016 Oct; 157(12):4677.

Application: IF, Mouse, pancreatic tissue

- [Angiotensin-converting enzyme 2 is a functional receptor for the SARS coronavirus.](#)

Li W, Moore MJ, Vasilieva N, Sui J, Wong SK, Berne MA, Somasundaran M, Sullivan JL, Luzuriaga K, Greenough TC, Choe H, Farzan M.

Nature 2003 Nov; 426(6965):450.

- [Angiotensin-converting enzyme 2 is an essential regulator of heart function.](#)

Crackower MA, Sarao R, Oudit GY, Yagil C, Kozieradzki I, Scanga SE, Oliveira-dos-Santos AJ, da Costa J, Zhang L, Pei Y, Scholey J, Ferrario CM, Manoukian AS, Chappell MC, Backx PH, Yagil Y, Penninger JM.

Nature 2002 Jun; 417(6891):822.

Application: WB-Ti, Rat, Rat kidney

- [A novel angiotensin-converting enzyme-related carboxypeptidase \(ACE2\) converts angiotensin I to angiotensin 1-9.](#)

Donoghue M, Hsieh F, Baronas E, Godbout K, Gosselin M, Stagliano N, Donovan M, Woolf B, Robison K, Jeyaseelan R, Breitbart RE, Acton S.

Circulation Research 2000 Sep; 87(5):E1.

Pathway

- [Renin-angiotensin system](#)

Disease

- [Arrhythmias](#)
- [Atrial Fibrillation](#)
- [Cardiomyopathy](#)
- [Cardiovascular Diseases](#)
- [Coronary Disease](#)
- [Death](#)
- [Diabetes Mellitus](#)
- [Diabetic Nephropathies](#)
- [Disease Progression](#)
- [Edema](#)
- [Genetic Predisposition to Disease](#)
- [Hypertension](#)
- [Hypertrophy](#)
- [Hypotension](#)
- [Intracranial Aneurysm](#)
- [Malaria](#)
- [Metabolic Syndrome X](#)
- [Sarcoidosis](#)