



Rabbit Anti-ACE2 antibody

SL1004R

Product Name:	ACE2
Chinese Name:	血管紧张素转换酶2抗体
Alias:	ACE-2; ACE 2; Angiotensin converting enzyme 2; ACE related carboxypeptidase; ACEH; Angiotensin converting enzyme homolog; Angiotensin converting enzyme like protein; Angiotensin I Converting Enzyme (peptidyl dipeptidase A) 2; Angiotensin I converting enzyme 2; DKFZP434A014; EC 3.4.17; OTTHUMP00000022963; angiotensin-converting enzyme 2 precursor; ACE2_HUMAN; Angiotensin-converting enzyme 2; ACE-related carboxypeptidase; Angiotensin-converting enzyme homolog; Metalloprotease MPROT15; Processed angiotensin-converting enzyme 2.
文献引用 PubMed :	<p>Specific References(2) SL1004R has been referenced in 2 publications.</p> <p>[IF=2.38]Raffai, Gabor, Gilson Khang, and Paul M. Vanhoutte. "Angiotensin-(1-7) augments endothelium-dependent relaxations of porcine coronary arteries to bradykinin by inhibiting ACE1." Journal of Cardiovascular Pharmacology (2014).IHC-P;Pig. PubMed:24390175</p> <p>[IF=0.00]Guo, Jun, and Changting Liu. "Protective Effects of Telmisartan in a Rat Model of Pulmonary Arterial Hypertension." Experimental & Clinical Cardiology (2014).IHC-P;Rat. PubMed:not posted yet</p>
Organism Species:	Rabbit
Clonality:	Polyclonal
React Species:	Human,Mouse,Rat,Dog,Pig,Sheep,
Applications:	ELISA=1:500-1000IHC-P=1:400-800IHC-F=1:400-800Flow-Cyt=1μg /test.ICC=1:100-500IF=1:100-500 (Paraffin sections need antigen repair) not yet tested in other applications. optimal dilutions/concentrations should be determined by the end user.
Molecular weight:	87kDa

Cellular localization:	The cell membraneSecretory protein
Form:	Lyophilized or Liquid
Concentration:	1mg/ml
immunogen:	KLH conjugated synthetic peptide derived from human ACE2:601-700/805<Extracellular>
Lsotype:	IgG
Purification:	affinity purified by Protein A
Storage Buffer:	0.01M TBS(pH7.4) with 1% BSA, 0.03% Proclin300 and 50% Glycerol.
Storage:	Store at -20 °C for one year. Avoid repeated freeze/thaw cycles. The lyophilized antibody is stable at room temperature for at least one month and for greater than a year when kept at -20°C. When reconstituted in sterile pH 7.4 0.01M PBS or diluent of antibody the antibody is stable for at least two weeks at 2-4 °C.
PubMed:	PubMed
Product Detail:	<p>The protein encoded by this gene belongs to the angiotensin-converting enzyme family of dipeptidyl carboxydipeptidases 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, Jul 2008].</p> <p>Function: Carboxypeptidase which converts angiotensin I to angiotensin 1-9, a peptide of unknown function, and angiotensin II to angiotensin 1-7, a vasodilator. Also able to hydrolyze apelin-13 and dynorphin-13 with high efficiency. May be an important regulator of heart function. In case of human coronaviruses SARS and HCoV-NL63 infections, serve as functional receptor for the spike glycoprotein of both coronaviruses.</p> <p>Subunit: Interacts with ITGB1. Interacts with SARS-CoV and HCoV-NL63 spike glycoprotein.</p> <p>Subcellular Location: Processed angiotensin-converting enzyme 2: Secreted. Cell membrane; Single-pass type I membrane protein.</p> <p>Tissue Specificity: Expressed in endothelial cells from small and large arteries, and in arterial smooth muscle cells. Expressed in lung alveolar epithelial cells, enterocytes of the small intestine, Leydig cells and Sertoli cells (at protein level). Expressed in heart, kidney, testis, and gastrointestinal system.</p> <p>Post-translational modifications: N-glycosylation on Asn-90 may limit SARS infectivity. Proteolytic cleavage by ADAM17 generates a secreted form. Belongs to the peptidase M2 family.</p>

Similarity:

Belongs to the peptidase M2 family.

SWISS:

Q9BYF1

Gene ID:

59272

Database links:

[Entrez Gene: 59272](#)Human

[Entrez Gene: 70008](#)Mouse

[Entrez Gene: 302668](#)Rat

[Omim: 300335](#)Human

[SwissProt: Q9BYF1](#)Human

[SwissProt: Q8R0I0](#)Mouse

[SwissProt: Q5EGZ1](#)Rat

[Unigene: 178098](#)Human

[Unigene: 13451](#)Mouse

[Unigene: 129779](#)Rat

Important Note:

This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.

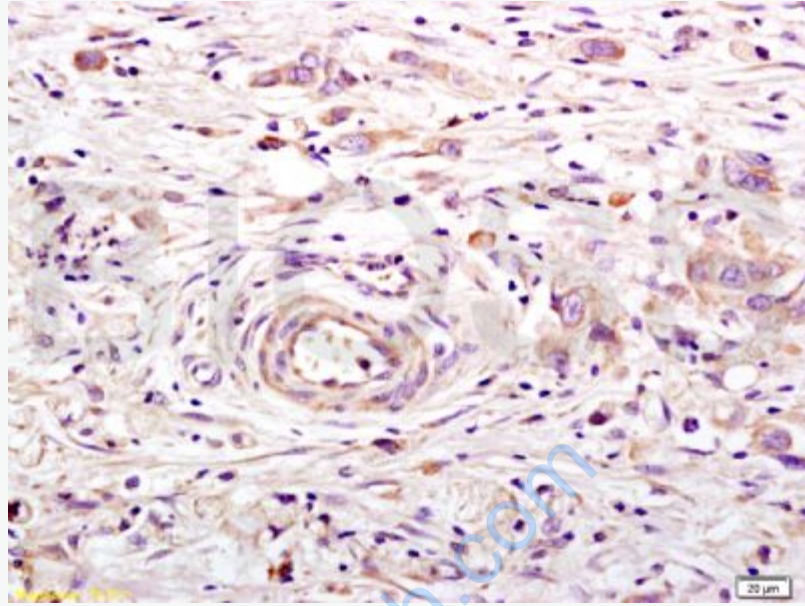
Synthesis and Degradation (Synthesis and Degradation)

ACE-2的分布范围比较局限, ACE2主要在心脏、肾脏、睾丸中表达显著, 近来人们发现ACE2也分布在胃肠道、脑和肺脏中。

有关学者在研究心脏和肾脏中发现, ACE2在心肌缺血、肾功能衰竭、动脉粥样硬化和Diabetes并发症中, ACE2对血管紧张素产生和降解过程中有一定的生理作用。

特别是对ACE2在具有生理活性的-活性肽产生过程中的作用更值得进一步研究。

ACE2的发现为Cardiovascular病和肾脏病研究开辟了新天地, 并提供了新的治疗靶点, 可能导致未来Cardiovascular疾病治疗策略的改变。

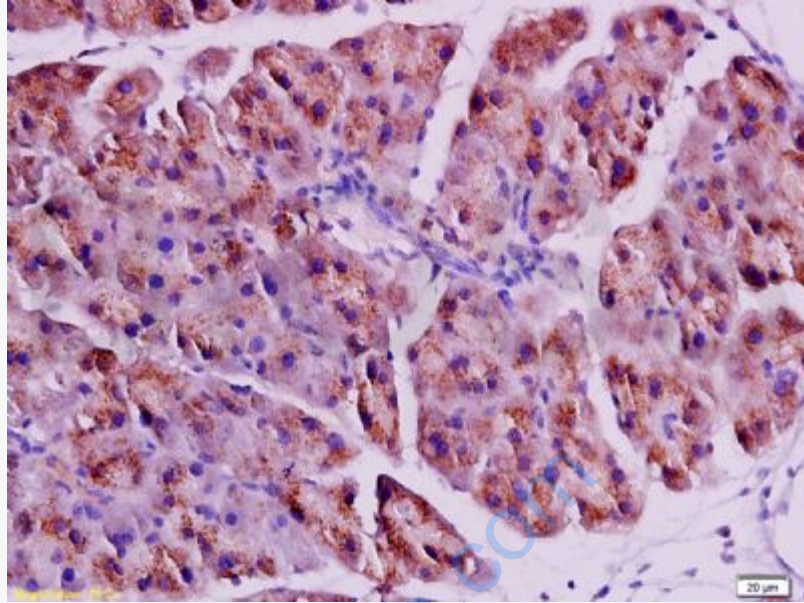


Picture:

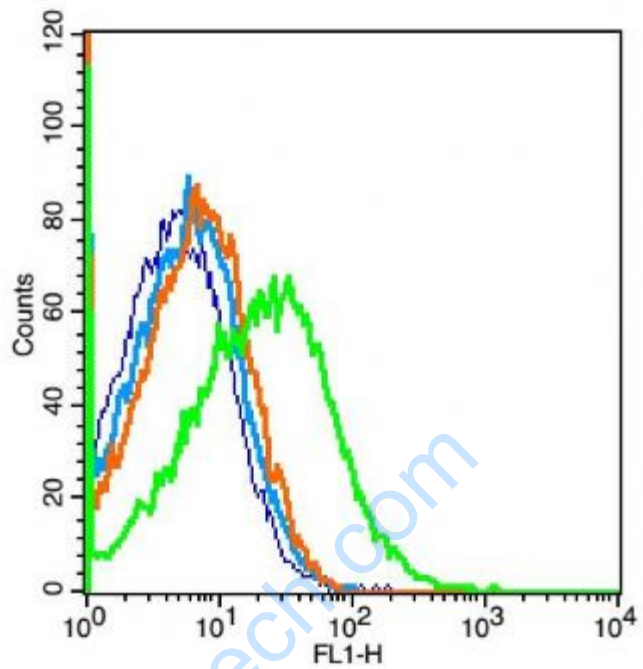
Tissue/cell: human gastric carcinoma; 4% Paraformaldehyde-fixed and paraffin-embedded;

Antigen retrieval: citrate buffer (0.01M, pH 6.0), Boiling bathing for 15min; Block endogenous peroxidase by 3% Hydrogen peroxide for 30min; Blocking buffer (normal goat serum,C-0005) at 37°C for 20 min;

Incubation: Anti-ACE2 Polyclonal Antibody, Unconjugated(SL1004R) 1:200, overnight at 4°C, followed by conjugation to the secondary antibody(SP-0023) and DAB(C-0010) staining



Tissue/cell: rat pancreas tissue; 4% Paraformaldehyde-fixed and paraffin-embedded;
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endogenous peroxidase by 3% Hydrogen peroxide for 30min; Blocking buffer
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Key	Name	Parameter
—	(mo)nephrocyte-blank.040	FL1-H
—	bs-0295G-FITC-(mo)ne#1E7D64.041	FL1-H
—	bs-0295P-(FITC)-(mo)#1E7D66.042	FL1-H
—	bs-1004R-(FITC)-(mo)#1E7D68.043	FL1-H

Positive control: (mo)Nephrocytes(2% Paraformaldehyde-fixed)

Isotype Control Antibody

Antibody: Rabbit IgG; Dilution: 1 μ g in 100 μ l 1 X PBS containing 0.5% BSA

Secondary Antibody

Antibody: Goat anti-rabbit IgG-FITC; Dilution: 1:200 in 1 X PBS containing 0.5%

BSA

Primary Antibody

Supplier catalog number: bs-1004R; Dilution: 1 μ g in 100 μ l 1X PBS containing

	0.5% BSA
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