

**Anti-ACE2 Antibody**  
Rabbit polyclonal antibody to ACE2  
Catalog # AP61518

**Specification**

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**Anti-ACE2 Antibody - Product Information**

Application	WB
Primary Accession	<a href="#">O9BYF1</a>
Other Accession	<a href="#">O8R0IO</a>
Reactivity	Human, Mouse, Rat
Host	Rabbit
Clonality	Polyclonal
Calculated MW	92463

**Anti-ACE2 Antibody - Additional Information**

Gene ID 59272

**Other Names**

Angiotensin-converting enzyme 2; ACE-related carboxypeptidase; Angiotensin-converting enzyme homolog; ACEH; Metalloprotease MPROT15

**Target/Specificity**

Recognizes endogenous levels of ACE2 protein.

**Dilution**

WB~~WB (1/500 - 1/1000)

**Format**

Liquid in 0.42% Potassium phosphate, 0.87% Sodium chloride, pH 7.3, 30% glycerol, and 0.09% (W/V) sodium azide.

**Storage**

Store at -20 °C. Stable for 12 months from date of receipt

**Anti-ACE2 Antibody - Protein Information**

Name ACE2 ([HGNC:13557](#))

**Function**

Essential counter-regulatory carboxypeptidase of the renin- angiotensin hormone system that is a critical regulator of blood volume, systemic vascular resistance, and thus cardiovascular homeostasis (PubMed: <http://www.uniprot.org/citations/27217402> target="\_blank">27217402</a>). Converts angiotensin I to angiotensin 1- 9, a nine-amino acid peptide with anti-hypertrophic effects in cardiomyocytes, and angiotensin II to angiotensin 1-7, which then acts as a beneficial vasodilator and anti-proliferation agent, counterbalancing the actions of the vasoconstrictor angiotensin II (PubMed: <http://www.uniprot.org/citations/10924499> target="\_blank">10924499</a>, PubMed:

href="http://www.uniprot.org/citations/10969042" target="\_blank">10969042</a>, PubMed:<a href="http://www.uniprot.org/citations/11815627" target="\_blank">11815627</a>, PubMed:<a href="http://www.uniprot.org/citations/14504186" target="\_blank">14504186</a>, PubMed:<a href="http://www.uniprot.org/citations/19021774" target="\_blank">19021774</a>). Also removes the C-terminal residue from three other vasoactive peptides, neurotensin, kinetensin, and des-Arg bradykinin, but is not active on bradykinin (PubMed:<a href="http://www.uniprot.org/citations/10969042" target="\_blank">10969042</a>, PubMed:<a href="http://www.uniprot.org/citations/11815627" target="\_blank">11815627</a>). Also cleaves other biological peptides, such as apelins (apelin-13, [Pyr1]apelin-13, apelin-17, apelin-36), casomorphins (beta-casomorphin- 7, neocasomorphin) and dynorphin A with high efficiency (PubMed:<a href="http://www.uniprot.org/citations/11815627" target="\_blank">11815627</a>, PubMed:<a href="http://www.uniprot.org/citations/27217402" target="\_blank">27217402</a>, PubMed:<a href="http://www.uniprot.org/citations/28293165" target="\_blank">28293165</a>). In addition, ACE2 C-terminus is homologous to collectrin and is responsible for the trafficking of the neutral amino acid transporter SL6A19 to the plasma membrane of gut epithelial cells via direct interaction, regulating its expression on the cell surface and its catalytic activity (PubMed:<a href="http://www.uniprot.org/citations/18424768" target="\_blank">18424768</a>, PubMed:<a href="http://www.uniprot.org/citations/19185582" target="\_blank">19185582</a>).

### Cellular Location

[Processed angiotensin-converting enzyme 2]: Secreted [Isoform 2]: Apical cell membrane

### Tissue Location

Expressed in endothelial cells from small and large arteries, and in arterial smooth muscle cells (at protein level) (PubMed:15141377). Expressed in enterocytes of the small intestine, Leydig cells and Sertoli cells (at protein level) (PubMed:15141377) Expressed in the renal proximal tubule and the small intestine (at protein level) (PubMed:18424768). Expressed in heart, kidney, testis, and gastrointestinal system (at protein level) (PubMed:10924499, PubMed:10969042, PubMed:12459472, PubMed:15231706, PubMed:15671045, PubMed:32170560, PubMed:32715618). In lung, expressed at low levels in some alveolar type 2 cells, the expression seems to be individual- specific (at protein level) (PubMed:15141377, PubMed:32170560, PubMed:32425701, PubMed:32715618, PubMed:33432184). Expressed in nasal epithelial cells (at protein level) (PubMed:32333915, PubMed:33432184) Coexpressed with TMPRSS2 within some lung alveolar type 2 cells, ileal absorptive enterocytes, intestinal epithelial cells, cornea, gallbladder and nasal goblet secretory cells (PubMed:32327758, PubMed:32358202, PubMed:32413319). Coexpressed with TMPRSS4 within mature enterocytes (PubMed:32404436).

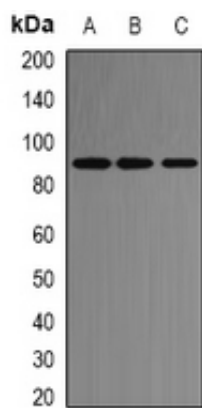
### Anti-ACE2 Antibody - Protocols

Provided below are standard protocols that you may find useful for product applications.

- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

### Anti-ACE2 Antibody - Images





Western blot analysis of ACE2 expression in Hela (A), SP20 (B), PC12 (C) whole cell lysates.

#### **Anti-ACE2 Antibody - Background**

KLH-conjugated synthetic peptide encompassing a sequence within the center region of human ACE2. The exact sequence is proprietary.