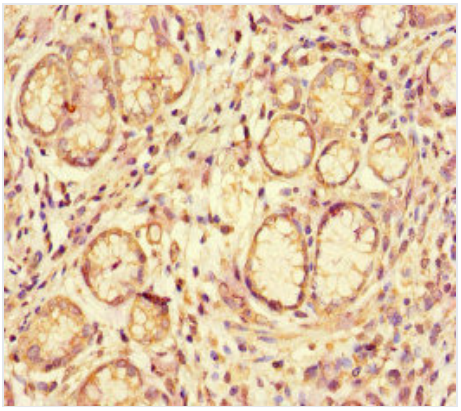
# ACE2 Antibody – Rabbit Polyclonal

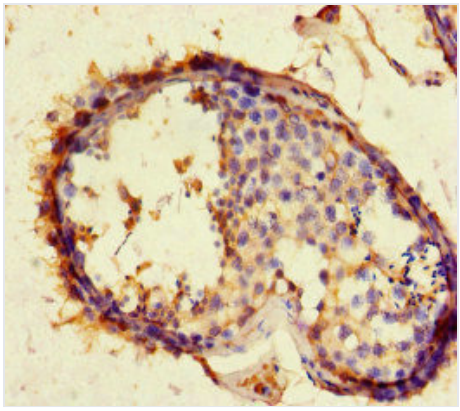
## PRODUCT OVERVIEW

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|---|---|
| **Product Name** | ACE2, Polyclonal Antibody |
| **Full Product Name** | ACE2 Antibody |
| **Product Gene Name** | anti-ACE2 antibody |
| **Product Synonym Names** | Angiotensin-converting enzyme 2 Angiotensin-converting enzyme 2 (EC 3.4.17.23) (ACE-related carboxypeptidase) (Angiotensin-converting enzyme homolog) (ACEH) (Metalloprotease MPROT15) [Cleaved into: Processed angiotensin-converting enzyme 2], ACE2 |
| **Clonality** | Polyclonal |
| **Isotype** | IgG |
| **Host** | Rabbit |
| **Species Reactivity** | Human |
| **Form/Format** | Liquid |
| **Purity/Purification** | >95%, Protein G purified |
| **Preparation and Storage** | Upon receipt, store at -20°C or -80°C. Avoid repeated freeze. |
| **Matching Pairs** | Unconjugated Antibody: ACE2 (MBS7046534)<br>HRP Conjugated Antibody: ACE2 (MBS7044727) |
| **Matching Pairs** | Unconjugated Antibody: ACE2 (MBS7046534)<br>Biotin Conjugated Antibody: ACE2 (MBS7045159) |
| **Matching Pairs** | Unconjugated Antibody: ACE2 (MBS7046534)<br>FITC Conjugated Antibody: ACE2 (MBS7045339) |
| **OMIM** | 300335 |
| **3D Structure** | ModBase 3D Structure for Q9BYF1 |
| **Immunogen** | Recombinant Human Angiotensin-converting enzyme 2 protein (395-638AA) |
| **Conjugate** | Non-conjugated |
| **Storage Buffer** | Preservative: 0.03% Proclin 300<br>Constituents: 50% Glycerol, 0.01M PBS, PH 7.4 |
| **Species** | Homo sapiens (Human) |
| **Research Area** | Cell Biology |
| **Target Names** | ACE2 |
| **ISO Certification** | Manufactured in an ISO 9001:2015 Certified Laboratory. |
| **Applications Tested/Suitable for anti-ACE2 antibody** | ELISA (EIA), Immunohistochemistry (IHC), Immunofluorescence (IF) |
| **Application Notes for anti-ACE2 antibody** | IHC:1:20-1:200<br>IF:1:50-1:200 |
| **Related Product Information for anti-ACE2 antibody** | 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. |

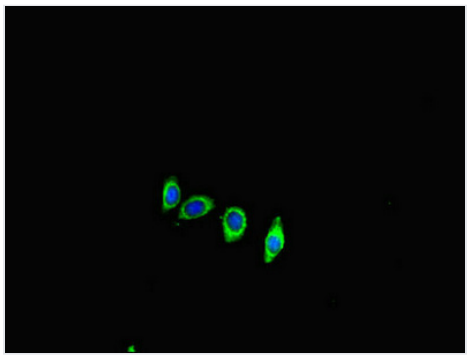
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| **Other Notes** | Small volumes of anti-ACE2 antibody vial(s) may occasionally become entrapped in the seal of the product vial during shipment and storage. If necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the container`s cap. Certain products may require to ship with dry ice and additional dry ice fee may apply. |
| **Searchable Terms for ACE2 purchase** | MBS7046534 is an antibody targeting ACE2. Also known as ACE2 Antibody. Reactive in Human. Host: Rabbit. |



**Immunohistochemistry (IHC) of anti-ACE2 antibody**
Immunohistochemistry of paraffin-embedded human gastric cancer using MBS7046534 at dilution of 1:100



**Immunohistochemistry (IHC) of anti-ACE2 antibody**
Immunohistochemistry of paraffin-embedded human testis tissue using MBS7046534 at dilution of 1:100



**Immunohistochemistry (IHC) of anti-ACE2 antibody**
Immunofluorescent analysis of HepG2 cells using MBS7046534 at a dilution of 1:100 and Alexa Fluor 488-congugated AffiniPure Goat Anti-Rabbit IgG(H+L)

## ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for ACE2. It may not necessarily be applicable to this product.

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| **NCBI GI #** | 11225609 |
| **NCBI GeneID** | 59272 |
| **NCBI Accession #** | NP_068576.1 |
| **UniProt Primary Accession #** | Q9BYF1 |
| **UniProt Secondary Accession #** | Q6UWP0; Q86WT0; Q9NRA7; Q9UFZ6; C7ECU1 |
| **UniProt Related Accession #** | Q9BYF1 |
| **GenBank Nucleotide #** | NM_021804.2 |
| **NCBI Official Full Name** | angiotensin-converting enzyme 2 |
| **NCBI Official Synonym Full Names** | angiotensin I converting enzyme 2 |
| **NCBI Official Symbol** | ACE2 |
| **NCBI Official Synonym Symbols** | ACEH |
| **UniProt Protein Name** | Angiotensin-converting enzyme 2 |

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| **UniProt Synonym Protein Names** | ACE-related carboxypeptidase; Angiotensin-converting enzyme homolog; ACEH |
| **Protein Family** | Angiotensin-converting enzyme |
| **UniProt Gene Name** | ACE2 |
| **UniProt Synonym Gene Names** | ACEH |
| **UniProt Entry Name** | ACE2_HUMAN |
| **NCBI Protein Information** | angiotensin-converting enzyme 2 |
| **NCBI Summary for ACE2** | 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] |
| **UniProt Comments for ACE2** | ACE2: 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. Interacts with ITGB1. Interacts with SARS-CoV and HCoV- NL63 spike glycoprotein. Up-regulated in failing heart. 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. Expressed in heart, kidney, testis, and gastrointestinal system. Activated by chloride and fluoride, but not bromide. Inhibited by MLN-4760, cFP_Leu, and EDTA, but not by the ACE inhibitors linosipril, captopril and enalaprilat. Belongs to the peptidase M2 family. 2 isoforms of the human protein are produced by alternative splicing.<br><br>Protein type: Protease; EC 3.4.17.23; Membrane protein, integral<br><br>Chromosomal Location of Human Ortholog: Xp22<br><br>Cellular Component: cell surface; extracellular region; extracellular space; lipid raft; plasma membrane<br><br>Molecular Function: carboxypeptidase activity; endopeptidase activity; glycoprotein binding; metallocarboxypeptidase activity; metallopeptidase activity; peptidyl-dipeptidase activity; protein binding; viral receptor activity; zinc ion binding<br><br>Biological Process: angiotensin catabolic process in blood; angiotensin maturation; angiotensin mediated drinking behavior; entry of virus into host cell; receptor biosynthetic process; regulation of cell proliferation; regulation of cytokine production; regulation of inflammatory response; regulation of systemic arterial blood pressure by renin-angiotensin; regulation of vasoconstriction; regulation of vasodilation; virion attachment, binding of host cell surface receptor |
| **Research Articles on ACE2** | **1.** ACE and ACE2 expression at the mRNA and protein levels are significantly increased in the myocardium of patients with heart failure. |
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