

ARG54802
anti-ACE2 antibody [881CT16.4.4]Package: 100 µl
Store at: -20°C

Summary

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|---------------------|---|
| Product Description | Mouse Monoclonal antibody recognizes ACE2 |
| Tested Reactivity | Hu |
| Tested Application | WB |
| Host | Mouse |
| Clonality | Monoclonal |
| Clone | 881CT16.4.4 |
| Isotype | IgM, kappa |
| Target Name | ACE2 |
| Immunogen | Purified His-tagged ACE2 protein. |
| Conjugation | Un-conjugated |
| Alternate Names | Angiotensin-converting enzyme homolog; ACEH; Angiotensin-converting enzyme 2; Metalloprotease MPROT15; ACE-related carboxypeptidase; EC 3.4.17.23 |

Application Instructions

| | | |
|-------------------|--|----------|
| Application table | Application | Dilution |
| | WB | 1:1000 |
| Application Note | * The dilutions indicate recommended starting dilutions and the optimal dilutions or concentrations should be determined by the scientist. | |
| Positive Control | MCF7 | |
| Observed Size | ~ 105 kDa | |

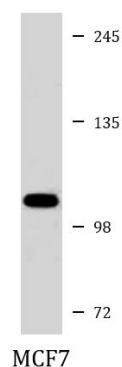
Properties

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| Form | Liquid |
| Purification | Purification by euglobulin precipitation. |
| Buffer | PBS and 0.09% (W/V) Sodium azide |
| Preservative | 0.09% (W/V) Sodium azide |
| Storage instruction | For continuous use, store undiluted antibody at 2-8°C for up to a week. For long-term storage, aliquot and store at -20°C or below. Storage in frost free freezers is not recommended. Avoid repeated freeze/thaw cycles. Suggest spin the vial prior to opening. The antibody solution should be gently mixed before use. |
| Note | For laboratory research only, not for drug, diagnostic or other use. |

Bioinformation

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|-----------------------|--|
| Database links | GeneID: 59272 Human Swiss-port # Q9BYF1 Human |
| Gene Symbol | ACE2 |
| Gene Full Name | angiotensin I converting enzyme 2 |
| Background | 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] |
| 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. [UniProt] |
| Highlight | Related products: ACE2 antibodies ; ACE2 ELISA Kits ; ACE2 recombinant proteins ; Anti-Mouse IgM secondary antibodies ; Related news: HMGB1, a biomarker and therapeutic target in COVID-19 ACE2, receptor of 2019-nCoV |
| Research Area | Cell Biology and Cellular Response antibody |
| Calculated Mw | 92 kDa |
| PTM | N-glycosylation on Asn-90 may limit SARS infectivity. Proteolytic cleavage by ADAM17 generates a secreted form. Also cleaved by serine proteases: TMPRSS2, TMPRSS11D and HPN/TMPRSS1. |
| Cellular Localization | Processed angiotensin-converting enzyme 2: Secreted |

Images



ARG54802 anti-ACE2 antibody WB image

Western blot: 35 µg of MCF7 cell lysate stained with ARG54802 anti-ACE2 antibody.