

## ARG66819 anti-ACE2 antibody [SQab20231]

Package: 100 µl  
Store at: -20°C

### Summary

Product Description	Recombinant Rabbit Monoclonal antibody [SQab20231] recognizes ACE2
Tested Reactivity	Hu
Tested Application	IHC-P
Host	Rabbit
Clonality	Monoclonal
Clone	SQab20231
Isotype	IgG
Target Name	ACE2
Species	Human
Immunogen	Synthetic peptide within aa. 750-850 of Human ACE2.
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
	IHC-P	1:100 - 1:200
Application Note	IHC-P: Antigen Retrieval: Heat mediation was performed in Tris/EDTA buffer (pH 9.0), primary antibody incubate at RT (18°C - 25°C) for 30 minutes. * The dilutions indicate recommended starting dilutions and the optimal dilutions or concentrations should be determined by the scientist.	

### Properties

Form	Liquid
Purification	Purification with Protein A.
Buffer	PBS, 0.01% Sodium azide, 40% Glycerol and 0.05% BSA.
Preservative	0.01% Sodium azide
Stabilizer	40% Glycerol and 0.05% BSA
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. 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.

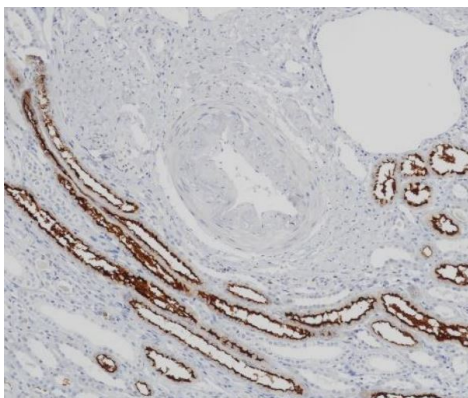
## Bioinformation

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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 carboxydiptidases 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	<p>Carboxypeptidase which converts angiotensin I to angiotensin 1-9, a peptide of unknown function, and angiotensin II to angiotensin 1-7, a vasodilator (PubMed:10969042, PubMed:10924499, PubMed:11815627). Also able to hydrolyze apelin-13 and dynorphin-13 with high efficiency (PubMed:11815627). By cleavage of angiotensin II, may be an important regulator of heart function (PubMed:10969042, PubMed:10924499). By cleavage of angiotensin II, may also have a protective role in acute lung injury (By similarity). Plays an important role in amino acid transport by acting as binding partner of amino acid transporter SL6A19 in intestine, regulating trafficking, expression on the cell surface, and its catalytic activity (PubMed:18424768, PubMed:19185582).</p> <p>(Microbial infection) Acts as a receptor for SARS coronavirus/SARS-CoV.</p> <p>(Microbial infection) Acts as a receptor for Human coronavirus NL63/HCoV-NL63. [UniProt]</p>
Highlight	<p>Related products: <a href="#">ACE2 antibodies</a>; <a href="#">ACE2 ELISA Kits</a>; <a href="#">ACE2 recombinant proteins</a>; <a href="#">Anti-Rabbit IgG secondary antibodies</a>;</p> <p>Related news: <a href="#">HMGB1, a biomarker and therapeutic target in COVID-19</a></p>
Calculated Mw	92 kDa
PTM	<p>N-glycosylation on Asn-90 may limit SARS infectivity.</p> <p>Proteolytic cleavage by ADAM17 generates a secreted form. Also cleaved by serine proteases: TMPRSS2, TMPRSS11D and HPN/TMPRSS1. [UniProt]</p>
Cellular Localization	Processed angiotensin-converting enzyme 2: Secreted. Cell membrane; Single-pass type I membrane protein. Cytoplasm. Note=Detected in both cell membrane and cytoplasm in neurons. [UniProt]

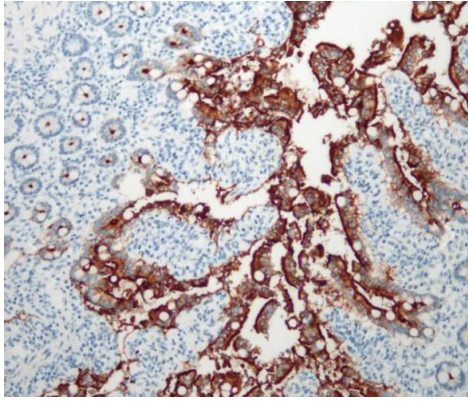
## Images

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ARG66819 anti-ACE2 antibody [SQab20231] IHC-P image

Immunohistochemistry: Formalin/PFA-fixed and paraffin-embedded Human kidney tissue. Antigen Retrieval: Heat mediation was performed in Tris/EDTA buffer (pH 9.0). The tissue section was stained with ARG66819 anti-ACE2 antibody [SQab20231].



**ARG66819 anti-ACE2 antibody [SQab20231] IHC-P image**

Immunohistochemistry: Formalin/PFA-fixed and paraffin-embedded Human small intestine tissue. Antigen Retrieval: Heat mediation was performed in Tris/EDTA buffer (pH 9.0). The tissue section was stained with ARG66819 anti-ACE2 antibody [SQab20231].