

ARG80968
Rat ACE2 ELISA KitPackage: 96 wells
Store at: 4°C

Summary

Product Description	ARG80968 Rat ACE2 ELISA Kit is an Enzyme Immunoassay kit for the quantification of Rat ACE2 in serum, plasma and cell culture supernatants.
Tested Reactivity	Rat
Tested Application	ELISA
Specificity	No significant cross-reactivity or interference between ACE2 and analogues was observed.
Target Name	ACE2
Conjugation	HRP
Conjugation Note	Substrate: TMB and read at 450 nm.
Sensitivity	1 ng/ml
Detection Range	6.25 - 200 ng/ml
Sample Type	Serum, plasma and cell culture supernatants.
Sample Volume	50 µl
Alternate Names	EC 3.4.17.23; ACE-related carboxypeptidase; Angiotensin-converting enzyme 2; Angiotensin-converting enzyme homolog; ACEH; Metalloprotease MPROT15

Application Instructions

Assay Time	90 min
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Properties

Form	96 well
Storage instruction	Store the kit at 2-8°C. Keep microplate wells sealed in a dry bag with desiccants. Do not expose test reagents to heat, sun or strong light during storage and usage. Please refer to the product user manual for detail temperatures of the components.
Note	For laboratory research only, not for drug, diagnostic or other use.

Bioinformation

Database links	GeneID: 302668 Rat Swiss-port # Q5EGZ1 Rat
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](#);

Related news:

[HMGB1, a biomarker and therapeutic target in COVID-19](#)

[ACE2, receptor of 2019-nCoV](#)

New ELISA data calculation tool:

[Simplify the ELISA analysis by GainData](#)

Research Area

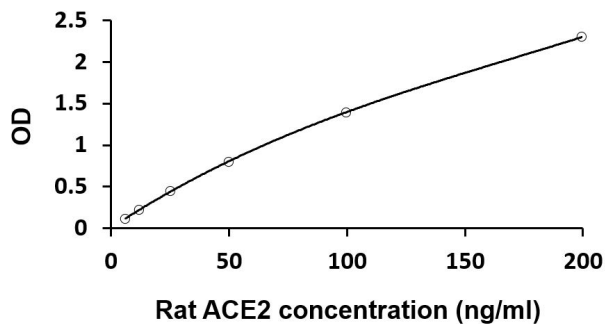
Cell Biology and Cellular Response kit

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.

Images



ARG80968 Rat ACE2 ELISA Kit standard curve image

ARG80968 Rat ACE2 ELISA Kit results of a typical standard run with optical density reading at 450 nm.