ARG81839
Mouse ACE2 ELISA Kit

Package: 96 wells
Store at: 4°C

Component

Cat. No.	Component Name	Package	Temp
ARG81839-001	Antibody-coated microplate	8 X 12 strips	4°C. Unused strips should be sealed tightly in the air-tight pouch.
ARG81839-002	Standard	2 X 10 ng/vial	4°C
ARG81839-003	Standard/Sample diluent	30 ml (Ready to use)	4°C
ARG81839-004	Antibody conjugate concentrate (100X)	1 vial (100 µl)	4°C
ARG81839-005	Antibody diluent buffer	12 ml (Ready to use)	4°C
ARG81839-006	HRP-Streptavidin concentrate (100X)	1 vial (100 µl)	4°C
ARG81839-007	HRP-Streptavidin diluent buffer	12 ml (Ready to use)	4°C
ARG81839-008	25X Wash buffer	20 ml	4°C
ARG81839-009	TMB substrate	10 ml (Ready to use)	4°C (Protect from light)
ARG81839-010	STOP solution	10 ml (Ready to use)	4°C
ARG81839-011	Plate sealer	4 strips	Room temperature

Summary

Product Description	ARG81839 Mouse ACE2 ELISA Kit is an Enzyme Immunoassay kit for the quantification of Mouse ACE2 in serum, plasma (heparin) and cell culture supernatants.
Tested Reactivity	Ms
Tested Application	ELISA
Specificity	There is no detectable cross-reactivity with other relevant proteins.
Target Name	ACE2
Conjugation	HRP
Conjugation Note	Substrate: TMB and read at 450 nm.
Sensitivity	31.25 pg/ml
Sample Type	Serum, plasma (heparin) and cell culture supernatants.
Standard Range	62.5 - 4000 pg/ml
Sample Volume	100 µl

Precision	Intra-Assay CV: 6.2%; Inter-Assay CV: 6.9%
Alternate Names	Angiotensin-converting enzyme homolog; ACEH; Angiotensin-converting enzyme 2; Metalloprotease MPROT15; ACE-related carboxypeptidase; EC 3.4.17.23

Application Instructions

Assay Time	~ 5 hours

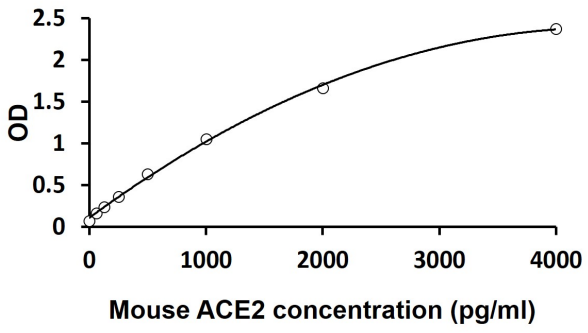
Properties

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

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
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. [UniProt]

Images



ARG81839 Mouse ACE2 ELISA Kit standard curve image

ARG81839 Mouse ACE2 ELISA Kit results of a typical standard run with optical density reading at 450 nm.