

Human Angiotensin I Converting Enzyme 2 (ACE2) ELISA Kit | ACE2 elisa kit

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CATALOG #
AAA23016

REACTIVITY
Human

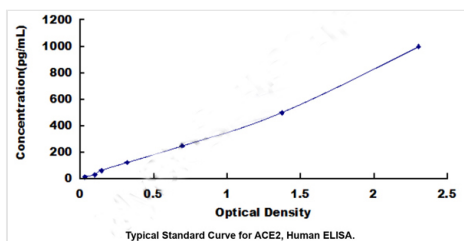
PRODUCT SYNONYMS

Angiotensin I Converting Enzyme 2 (ACE2); Human Angiotensin I Converting Enzyme 2 (ACE2) ELISA Kit; ACEH; ACEII; ACE-II; Peptidyl-Dipeptidase A; ACE-related carboxypeptidase; Angiotensin-converting enzyme homolog; Metalloprotease MPROT15; ACE2 elisa kit

PRODUCT SPECIFICATIONS

Reactivity	Human
Specificity	This assay has high sensitivity and excellent specificity for detection of ACE2. No significant cross-reactivity or interference between ACE2 and analogues was observed.
Sequence Length	805
Assay Type	Quantitative Sandwich
Samples	Human serum, plasma and other biological fluids
Detection Range	15.6-1,000pg/mL
Sensitivity	< 5.5pg/mL
Intra-assay Precision	Intra-assay Precision (Precision within an assay): 3 samples with low, middle and high level ACE2 were tested 20 times on one plate, respectively. Intra-Assay: CV<10%
Inter-assay Precision	Inter-assay Precision (Precision between assays): 3 samples with low, middle and high level ACE2 were tested on 3 different plates, 8 replicates in each plate. CV(%) = SD/meanX100. Inter-Assay: CV<12%
Preparation and Storage	The stability of kit is determined by the loss rate of activity. The loss rate of this kit is less than 5% within the expiration date under appropriate storage condition. To minimize extra influence on the performance, operation procedures and lab conditions, especially room temperature, air humidity, incubator temperature should be strictly controlled. It is also strongly suggested that the whole assay is performed by the same operator from the beginning to the end.

IMAGES



Standard Curve (Sample)

ADDITIONAL INFORMATION

Related Product Information for ACE2 elisa kit	Principle of the Assay: The microplate provided in this kit has been pre-coated with an antibody specific to ACE2. Standards or samples are then added to the appropriate microplate wells with a biotin-conjugated antibody specific to ACE2. Next, Avidin conjugated to Horseradish Peroxidase (HRP) is added to each microplate well and incubated. After TMB substrate solution is added, only those wells that contain ACE2, biotin-conjugated antibody and enzyme-conjugated Avidin will exhibit a change in color. The enzyme-substrate reaction is terminated by the addition of sulphuric acid solution and the color change is measured spectrophotometrically at a wavelength of 450nm ± 10nm. The concentration of ACE2 in the samples is then determined by comparing the O.D. of the samples to the standard curve. Intended Uses: The kit is a sandwich enzyme immunoassay for in vitro quantitative measurement of ACE2 in human serum, plasma and other biological fluids.
References	Plasma Angiotensin II Is Increased in Critical Coronavirus Disease 2019; Front Cardiovasc Med; 2022 Jun 24;9:847809.; PMID: 35811697; Camargo, Rafael L.; Obesity and Comorbidities Research Center, University of Campinas, Campinas, Brazil.

NCBI AND UNIPROT INFORMATION

NCBI GI #	299482810
Molecular Weight	93,318 Da
NCBI Official Full Name	angiotensin I converting enzyme 2
UniProt Protein Name	Angiotensin-converting enzyme
UniProt Gene Name	ACE2

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

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Online datasheet: <https://stage.aaabiotech.com/human-elisa-kits/angiotensin-i-converting-enzyme-2-ace2/23016>