

Datasheet for KOA0623**Human ACE2 ELISA Kit****Overview**

Description:	Human ACE2 AccuSignal ELISA Kit - KOA0623
Item No.:	KOA0623
Size:	1 Kit
Applications:	ELISA
Reactivity:	H. sapiens (Human)
Range:	62.5 pg/ml - 4000 pg/ml

Product Details

Background:	AngiotensinI-converting enzyme 2(ACE 2) is a protein belongs to the angiotensin-converting enzyme family of dipeptidyl carboxydipeptidases and has considerable homology to human angiotensin 1 converting enzyme. By sequence similarity to a sequence in GenBank, this gene is mapped to Xp22.2. 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.
Synonyms:	ACE 2, ACE related carboxypeptidase, ACE-related carboxypeptidase, ACE2, ACE2_HUMAN, ACEH, Angiotensin converting enzyme 2, Angiotensin converting enzyme homolog, Angiotensin converting enzyme like protein, Angiotensin I Converting Enzyme (peptidyl dipeptidase A) 2, Angiotensin I converting enzyme 2, Angiotensin-converting enzyme homolog, DKFZP434A014, EC 3.4.17, metalloprotease MPROT 15, Metalloprotease MPROT15, OTTHUMP00000022963, Processed angiotensin-converting enzyme 2
Detection Kit Type:	ELISA Kit
Detection Range:	62.5 pg/ml - 4000 pg/ml
Sensitivity:	<10 pg/ml

Target Details

Gene Name:	ACE2
Reactivity:	H. sapiens (Human)

Immunogen:	Expression system for standard: NSO; Immunogen sequence: Q18-S740
Purity/Specificity:	Natural and recombinant human ACE2. There is no detectable cross-reactivity with other relevant proteins.
Relevant Links:	• UniProtKB - Q9BYF1 • NCBI - NP_068576.1 • GenelD - 59272 • KOA0623 Protocol

Application Details

Tested Applications:	ELISA
Application Note:	Useful in Sandwich ELISA for Quantitative Detection of Antigen. Aliquot 0.1ml per well of the 4000pg/ml, 2000pg/ml, 1000pg/ml, 500pg/ml, 250pg/ml, 125pg/ml, 62.5pg/ml human ACE2 standard solutions into the precoated 96-well plate. Add 0.1ml of the sample diluent buffer into the control well (Zero well). Add 0.1ml of each properly diluted sample of human cell culture supernates, serum or plasma (heparin, EDTA) to each empty well. It is recommended that each human ACE2 standard solution and each sample be measured in duplicate.
Assay Dilutions:	All assays should be optimized by the user. Recommended dilutions (if any) may be listed below.
ELISA:	62.5pg/ml-4000pg/ml
Other:	DOE: 2-8° C - 08/13/2022 -20° C - 02/11/2023

Formulation

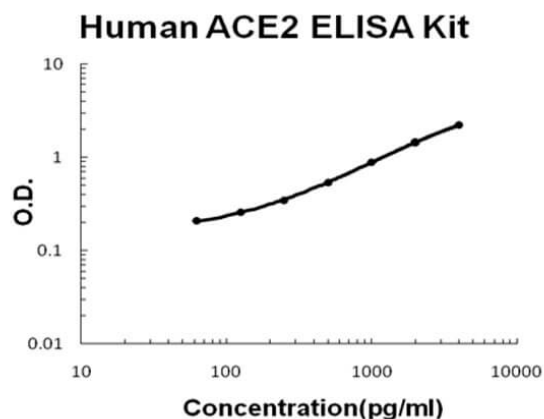
Concentration:	1 Kit
Anticoagulant:	Heparin Sodium

Shipping & Handling

Shipping Condition:	Wet Ice
Storage Condition:	Store vials at 4°C prior to opening. Centrifuge product if not completely clear after standing at room temperature. This product is stable for 6 months at 4°C as an undiluted liquid. Dilute only prior to immediate use. For extended storage freeze at -20°C or below for 12 months. Avoid cycles of freezing and thawing.

Expiration: See kit insert for complete instructions.

Images



ELISA

Human ACE2 AccuSignal ELISA Kit standard curve. Assay Range: 62.5pg/ml-4000pg/ml. Sensitivity: <10pg/ml.

Disclaimer

This product is for research use only and is not intended for therapeutic or diagnostic applications. Please contact a technical service representative for more information. All products of animal origin manufactured by Rockland Immunochemicals are derived from starting materials of North American origin. Collection was performed in United States Department of Agriculture (USDA) inspected facilities and all materials have been inspected and certified to be free of disease and suitable for exportation. All properties listed are typical characteristics and are not specifications. All suggestions and data are offered in good faith but without guarantee as conditions and methods of use of our products are beyond our control. All claims must be made within 30 days following the date of delivery. The prospective user must determine the suitability of our materials before adopting them on a commercial scale. Suggested uses of our products are not recommendations to use our products in violation of any patent or as a license under any patent of Rockland Immunochemicals, Inc. If you require a commercial license to use this material and do not have one, then return this material, unopened to: Rockland Inc., P.O. BOX 5199, Limerick, Pennsylvania, USA.