

Datasheet for KOA0338**Mouse ACE ELISA Kit****Overview**

Description:	Mouse ACE AccuSignal ELISA Kit - KOA0338
Item No.:	KOA0338
Size:	1 Kit
Applications:	ELISA
Reactivity:	Mouse
Range:	93.8 pg/ml - 6000 pg/ml

Product Details

Background:	Angiotensin-converting enzyme(ACE), an exopeptidase, is a circulating enzyme that participates in the body's renin-angiotensin system(RAS), which mediates extracellular volume(i.e. that of the blood plasma, lymph and interstitial fluid), and arterial vasoconstriction. It is secreted by pulmonary and renal endothelial cells and catalyzes the conversion of decapeptide angiotensin I to octapeptide angiotensin II. Using a DNA marker at the growth hormone gene locus, which they characterized as 'extremely polymorphic' and which showed no recombination with ACE, ACE was mapped to 17q22-q24, consistent with the in situ hybridization mapping to 17q23. ACE, or kininase II, is a dipeptidyl carboxypeptidase that plays an important role in blood pressure regulation and electrolyte balance by hydrolyzing angiotensin I into angiotensin II, a potent vasopressor, and aldosterone-stimulating peptide. The enzyme is also able to inactivate bradykinin, a potent vasodilator.
Synonyms:	Angiotensin converting enzyme, CD143, DCP, Dcp1, Dipeptidyl carboxypeptidase I, Kininase II
Detection Kit Type:	ELISA Kit
Detection Range:	93.8 pg/ml - 6000 pg/ml
Sensitivity:	<10 pg/ml

Target Details

Gene Name:	ACE
Reactivity:	Mouse
Immunogen:	Expression system for standard: NSO; Immunogen sequence: L35-Q1264

Purity/Specificity: Natural and recombinant mouse ACE. There is no detectable cross-reactivity with other relevant proteins.

Relevant Links:

- [UniProtKB - P09470](#)
- [NCBI - NP_033728.1](#)
- [GeneID - 11421](#)
- [KOA0338 Protocol](#)

Application Details

Tested Applications: ELISA

Application Note: Useful in Sandwich ELISA for Quantitative Detection of Antigen. Aliquot 0.1ml per well of the 6000pg/ml, 3000pg/ml, 1500pg/ml, 750pg/ml, 419pg/ml, 187.5pg/ml, 93.8pg/ml mouse ACE 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 mouse cell culture supernates, serum or plasma(heparin) to each empty well. We recommend that each mouse ACE standard solution and each sample is measured in duplicate.

Assay Dilutions: All assays should be optimized by the user. Recommended dilutions (if any) may be listed below.

Formulation

Anticoagulant: Heparin Sodium

Shipping & Handling

Shipping Condition: Wet Ice

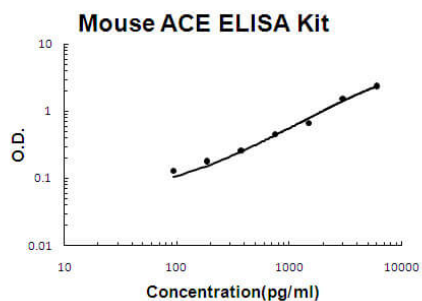
Storage Condition: Store vials at 4°C prior to opening. Centrifuge product if not completely clear after standing at room temperature. This product is stable for 6 months at 4°C as an undiluted liquid. Dilute only prior to immediate use. For extended storage freeze at -20°C or below for 12 months. Avoid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

Expiration: See kit insert for complete instructions.

Images

ELISA

Mouse ACE AccuSignal ELISA Kit standard curve. Assay
Range: 93.8pg/ml-6000pg/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.