

Datasheet for KOA0879**Human APOA1 ELISA Kit****Overview**

Description:	Human APOA1 AccuSignal ELISA Kit - KOA0879
Item No.:	KOA0879
Size:	1 Kit
Applications:	ELISA
Reactivity:	Human
Range:	3.12 ng/ml - 200 ng/ml

Product Details

Background:	Apolipoprotein A1 is a protein that in humans is encoded by the APOA1 gene. This gene encodes apolipoprotein A-I, which is the major protein component of high density lipoprotein (HDL) in plasma. The encoded preproprotein is proteolytically processed to generate the mature protein, which promotes cholesterol efflux from tissues to the liver for excretion, and is a cofactor for lecithin cholesterol acyltransferase (LCAT), an enzyme responsible for the formation of most plasma cholesteryl esters. This gene is closely linked with two other apolipoprotein genes on chromosome 11. Defects in this gene are associated with HDL deficiencies, including Tangier disease, and with systemic non-neuropathic amyloidosis. Alternative splicing results in multiple transcript variants, at least one of which encodes a preproprotein.
Synonyms:	Apo AI, Apo-AI, ApoA I, ApoA-I, APOA1, Apolipoprotein A I, Apolipoprotein A-I, Apolipoprotein A1, Apolipoprotein AI, ApolipoproteinAI, Brp14
Detection Kit Type:	ELISA Kit
Detection Range:	3.12 ng/ml - 200 ng/ml
Sensitivity:	<50 pg/ml

Target Details

Gene Name:	APOA1
Reactivity:	Human
Immunogen:	Expression system for standard: E.coli; Immunogen sequence: D25-Q267
Purity/Specificity:	Natural human APOA1. There is no detectable cross-reactivity with other relevant proteins.

Relevant Links:

- [UniProtKB - P02647](#)
- [NCBI - NP_000030.1](#)
- [GeneID - 335](#)
- [KOA0879 Protocol](#)

Application Details

Tested Applications: ELISA

Application Note: Useful in Sandwich ELISA for Quantitative Detection of Antigen. Aliquot 0.1ml per well of the 200ng/ml, 100ng/ml, 50ng/ml, 25ng/ml, 12.5ng/ml, 6.25ng/ml, 3.12ng/ml human APOA1 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, plasma(heparin, EDTA) or urine to each empty well. It is recommended that each human APOA1 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.

Formulation

Anticoagulant: Heparin Sodium

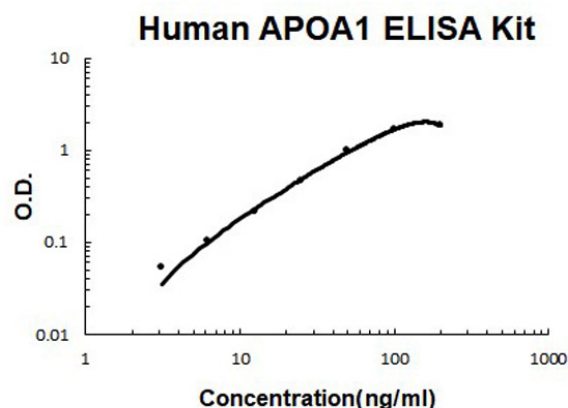
Shipping & Handling

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

Human APOA1 ELISA Kit standard curve.

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.