

Human APOA1 PicoKine ELISA Kit | APOA1 elisa kit

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CATALOG #
AAA46195

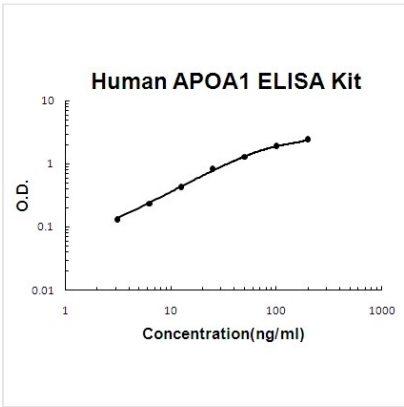
REACTIVITY
Human

PRODUCT SYNONYMS

APOA1 PicoKine; Human APOA1 PicoKine ELISA Kit; Apolipoprotein A-I; Apo AI; Apo-AI; ApoA I; ApoA-I; APOA1; Apolipoprotein A I; Apolipoprotein A1; Apolipoprotein AI; ApolipoproteinAI; Brp14; ; apolipoprotein A-I; APOA1 elisa kit

PRODUCT SPECIFICATIONS

Reactivity	Human
Specificity	Natural human APOA1
Sequence Length	267
Assay Range	3.12ng/ml-200ng/ml
Sensitivity	<50pg/ml
Sample	For quantitative detection of human APOA1 in cell culture supernates, serum, plasma(heparin, EDTA) and urine.
Immunogen	E Coli, D25-Q267
Assay Procedure Step 1	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.
Intra-Assay Precision	Inter-Assay Precision Sample 1 2 3 1 2 3 n 16 16 16 24 24 24 Mean(ng/ml) 14.4 55 139 20.7 73 169 Standard deviation 0.48 2.48 8.06 1.14 4.45 10.99 CV(%) 3.3 4.5 5.8 5.5 6.1 6.5
Sample Data	Concentration(ng/ml) 0 3.12 6.25 12.5 25 50 100 200 O.D. 0.009 0.130 0.228 0.425 0.819 1.261 1.894 2.410
Anticoagulant	Heparin or EDTA
Preparation and Storage	Store at 4 degree C for 6 months, at -20 degree C for 12 months. Avoid multiple freeze-thaw cycles.



Standard Curve (Sample)
Human APOA1 PicoKine ELISA Kit standard curve

ADDITIONAL INFORMATION

Related Product Information for APOA1 elisa kit	Principle of the assay: Human APOA1 ELISA Kit was based on standard sandwich enzyme-linked immune-sorbent assay technology. A monoclonal antibody from mouse specific for APOA1 has been precoated onto 96-well plates. Standards(Expression system for standard: E Coli, mmunogen sequence: D25-Q267) and test samples are added to the wells, a biotinylated detection polyclonal antibody from goat specific for APOA1 is added subsequently and then followed by washing with PBS or TBS buffer. Avidin-Biotin-Peroxidase Complex was added and unbound conjugates were washed away with PBS or TBS buffer. HRP substrate TMB was used to visualize HRP enzymatic reaction. TMB was catalyzed by HRP to produce a blue color product that changed into yellow after adding acidic stop solution. The density of yellow is proportional to the human APOA1 amount of sample captured in plate. 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 cholesterolacyltransferase (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.
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NCBI AND UNIPROT INFORMATION

NCBI GI #	4557321
NCBI GeneID	335
NCBI Accession #	NP_000030.1
NCBI GenBank Nucleotide #	NM_000039.2
UniProt Accession #	P02647; Q6LDN9; Q6Q785; Q9UCS8; Q9UCT8; A8K866
Molecular Weight	30,778 Da
NCBI Official Full Name	apolipoprotein A-I isoform 1 preproprotein
NCBI Official Synonym Full Names	apolipoprotein A1
NCBI Official Symbol	APOA1
NCBI Official Synonym Symbols	apo(a)
NCBI Protein Information	apolipoprotein A-I
UniProt Protein Name	Apolipoprotein A-I

UniProt Gene Name	APOA1
UniProt Synonym Gene Names	Apo-AI; ApoA-I; ProapoA-I
UniProt Entry Name	APOA1_HUMAN

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://www.aaabiotech.com/human-elisa-kits/apoa1-picokine/46195>