

Human APOA1/Apolipoprotein A-I ELISA Kit | APOA1 elisa kit

Human APOA1/Apolipoprotein A-I PicoKine Quick ELISA Kit

CATALOG # AAA126844	REACTIVITY Human	APPLICATIONS ELISA
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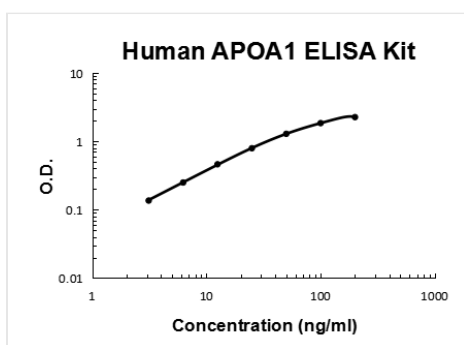
PRODUCT SYNONYMS

APOA1/Apolipoprotein A-I; Human APOA1/Apolipoprotein A-I PicoKine Quick ELISA Kit; APOA1 elisa kit

PRODUCT SPECIFICATIONS

Reactivity	Human
Specificity	Natural and recombinant Human APOA1
Assay Type	Sandwich
Samples	Cell culture supernatants, serum, plasma (heparin, EDTA) and urine
Detection Range	3.12 ng/ml - 200 ng/ml
Sensitivity	<50 pg/ml
Applicable Applications for APOA1 elisa kit	ELISA
Intra-assay Precision	Intra-Assay Precision (Precision within an assay): Three samples of known concentration were tested on one plate to assess intra-assay precision.
Inter-assay Precision	Inter-Assay Precision (Precision across assays): Three samples of known concentration were tested in separate assays to assess inter-assay precision.
Preparation and Storage	Store at 4 degree C for 6 months, at -20 degree C for 12 months. Avoid multiple freeze-thaw cycles (Ships with gel ice, can store for up to 3 days in room temperature. Freeze upon receiving.)

IMAGES



Standard Curve (Sample)

Human APOA1 PicoKine ELISA Kit standard curve

ADDITIONAL INFORMATION

Related Product Information for APOA1 elisa kit	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 absorbance 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. Principle of the Assay: The Quick Picokine™ Human APOA1 Pre-Coated ELISA (Enzyme-Linked Immunosorbent Assay) kit is a solid phase immunoassay specially designed to measure Human APOA1 in cell culture supernatants, serum, plasma (heparin, EDTA) and urine. It uses our proprietary Quick ELISA technology. Quick ELISA technology employs capture antibodies conjugated to an affinity tag that is recognized by the polyclonal antibody used to coat our Quick ELISA plates. This approach to sandwich ELISA allows the formation of the antibody-analyte sandwich complex in a single step, significantly reducing assay time. The kit includes Human APOA1 protein as standards. To measure Human APOA1, add standards and samples to the wells, then add antibody cocktail. Wash the wells with PBS or TBS buffer, and add TMB. TMB is an HRP substrate and will be catalyzed to produce a blue color product, which changes into yellow after adding the acidic stop solution. The absorbance of the yellow product is linearly proportional to Human APOA1 in the sample. Read the absorbance of the yellow product in each well using a plate reader, and benchmark the sample wells' readings against the standard curve to determine the concentration of Human APOA1 in the sample.
Product Categories/Family for APOA1 elisa kit	PicoKine ELISA Kits, Fast ELISA Kits

NCBI AND UNIPROT INFORMATION

NCBI GI #	553183
NCBI GeneID	335
UniProt Accession #	P02647; Q6LDN9; Q6Q785; Q9UCS8; Q9UCT8; A8K866
Molecular Weight	30,778 Da
NCBI Official Full Name	APOA1, partial
NCBI Official Synonym Full Names	apolipoprotein A-I
NCBI Official Symbol	APOA1
NCBI Protein Information	apolipoprotein A-I; apo-AI
UniProt Protein Name	Apolipoprotein A-I
UniProt Gene Name	APOA1
UniProt Synonym Gene Names	Apo-AI; ApoA-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.