

## Human APOA1 ELISA Kit

Catalog No: #EK5684

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## Description

Product Name	Human APOA1 ELISA Kit
Specificity	Human
Crossing Reactivity	There is no detectable cross-reactivity with other relevant proteins.
Immunogen Type	E.coli,D25-Q267
Other Names	Apolipoprotein A-I; Apo-AI; ApoA-I; Apolipoprotein A1; Proapolipoprotein A-I; ProapoA-I; Truncated apolipoprotein A-I; Apolipoprotein A-I(1-242); APOA1;
Accession No.	P02647
Uniprot	P02647
GeneID	335;
Cell Localization	Secreted.

## Application Details

sensitivity:50pg mlDetect Range:3.12ng ml-200ng ml  
sample\_type:cell culture supernates serum plasma(heparin EDTA) and urine.  
capture\_antibody:detection\_antibody:gene\_name:APOA1protein\_name:Apolipoprotein A-Igene\_full\_name:Apolipoprotein A-I  
tissue\_specificity: Major protein of plasma HDL also found in chylomicrons. Synthesized in the liver and small intestine. The oxidized form at Met-110 and Met-136 is increased in individuals with increased risk for coronary artery disease such as in carriers of the eNOS a/b genotype and exposure to cigarette smoking. It is also present in increased levels in aortic lesions relative to native ApoA-I and increased levels are seen with increasing severity of disease.  
sequence\_similarities: tmb\_incubation:25-30min  
research\_category:cardiovascular|lipids / lipoproteins|lipid metabolism|cholesterol metabolism|signal transduction|kits/ lysates/ other|kits|elisa kits|cancer proteins elisa kits|pathways and processes|metabolic signaling pathways|lipid and lipoprotein metabolism|lipoprotein elisa kits

## Product Description

Sandwich High Sensitivity ELISA kit for Quantitative Detection of Human APOA1

## Background

protein\_function: Participates in the reverse transport of cholesterol from tissues to the liver for excretion by promoting cholesterol efflux from tissues and by acting as a cofactor for the lecithin:cholesterol acyltransferase (LCAT). As part of the SPAP complex, activates spermatozoa motility..  
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 preprotein 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 cholesterol 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 preprotein.

Note: This product is for in vitro research use only