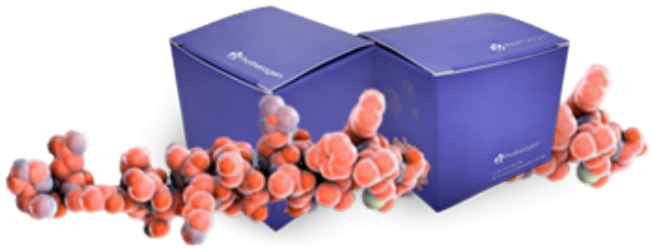
Protheragen
Obesity



Human apolipoprotein AI (Apo-AI) ELISA kit

Cat. No.:	OB0625WXX-114
Assay Type:	Quantitative competitive ELISA
Target Species:	Human
Assay Target:	Apo-AI
Size:	48T; 96T

This product is for research use only and is not intended for diagnostic use.

Product Overview

Description	Human apolipoprotein AI (Apo-AI) ELISA kit is an ELISA-based *in vitro* res earch tool designed specifically for the quantitative detection of Apo-AI in hum an with a specificity of 0.1 ng/mL.
Assay Principle	The assay samples and buffer are incubated with Apo-AI-HRP conjugate in a pre-co ated plate for one hour. At the end of the incubation period, the wells are deca nted and washed five times. The wells are then incubated with HRP enzyme substra te. The products of the enzyme-substrate reaction form a blue color complex. Fin ally, the reaction is stopped by adding a stop solution, which turns the solutio n yellow. The color intensity is measured spectrophotometrically at 450 nm on a microplate reader. The color intensity is inversely proportional to the concentr ation of Apo-AI because Apo-AI in the sample competes with the Apo-AI-HRP conjug ate for the anti-Apo-AI antibody binding site. Since there are a limited number of binding sites, as more sites are occupied by Apo-AI in the sample, fewer site s can bind to the Apo-AI-HRP conjugate. A standard curve is plotted between colo r intensity (O.D.) and standard concentration. The concentration of Apo-AI in ea ch sample is derived from this standard curve.
Background	Apo-AI is the major protein component of high-density lipoprotein (HDL) in plasm a and is involved in the transport of cholesterol from tissues to the liver for excretion.
Synonyms	APOA1, Apolipoprotein A1, Apolipoprotein A-I, HPALP2

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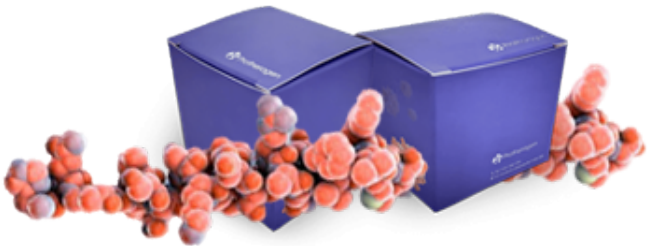

Formula Weight	30,778 Da
Applications	Human apolipoprotein AI (Apo-AI) ELISA kit is an important tool for the quantita tive detection of Apo-AI in various biological samples (serum, plasma, cell cult ure supernatants, body fluid, tissue homogenate) of humans.
Research Area	Metabolism; Obesity research

Specification

Sample Type	Serum; Plasma; Cell culture supernatants; Body fluid; Tissue homogenate
Sensitivity	0.1 ng/mL
Cross-reactivity	No significant cross-reactivity or interference was observed.
Storage	Store at 2-8°C.

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