

## Human ApoA1 Antibody Pair Set

**Catalog No.** E-KAB-0260

**Applications**

ELISA

**Synonyms** APOA1, Apo-A1

### Kit components & Storage

Title	Specifications	Storage
Human ApoA1 Capture Antibody	1 vial, 100 μg	Store at -20°C for one year. Avoid freeze / thaw cycles.
Human ApoA1 Detection Antibody (Biotin)	1 vial, 50 μL	Store at -20°C for one year. Avoid freeze / thaw cycles.

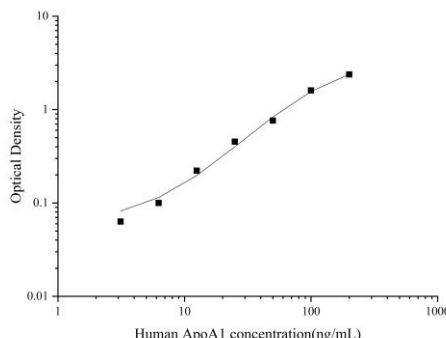
**Note:** Centrifuge before opening to ensure complete recovery of vial contents.

### Product Information

Items		Characteristic (E-KAB-0260)	
		Human ApoA1 Capture Antibody	Human ApoA1 Detection Antibody (Biotin)
Immunogen Information	Immunogen	Recombinant Human ApoA1 protein	Recombinant Human ApoA1 protein
	Swissprot	P02647	
Product details	Reactivity	Human	Human
	Host	Mouse	Mouse
	Conjugation	Unconjugated	Biotin
	Concentration	0.5mg/mL	/
	Buffer	PBS with 0.04% Proclin 300, 50% glycerol, pH 7.4	PBS with 0.04% Proclin 300, 1% protective protein, 50% glycerol, pH 7.4
	Purify	Protein A	Protein A
	Specificity	Detects Human ApoA1 in ELISAs.	

## Applications

### Human ApoA1 Sandwich ELISA Assay:

	Recommended Concentration/Dilution	Reagent	Images										
ELISA Capture	0.5-4µg/mL	Human ApoA1 Capture Antibody	 <p>The graph is a log-log plot of Optical Density versus Human ApoA1 concentration (ng/mL). The x-axis ranges from 1 to 1000 ng/mL, and the y-axis ranges from 0.01 to 10. The data points show a clear upward trend, indicating that as the concentration of Human ApoA1 increases, the optical density also increases. The curve is approximately linear on this log-log scale, suggesting a power-law relationship between the two variables.</p> <table border="1"> <caption>Approximate data points from the standard curve</caption> <thead> <tr> <th>Human ApoA1 concentration (ng/mL)</th> <th>Optical Density</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>0.05</td> </tr> <tr> <td>10</td> <td>0.2</td> </tr> <tr> <td>100</td> <td>1.0</td> </tr> <tr> <td>1000</td> <td>5.0</td> </tr> </tbody> </table>	Human ApoA1 concentration (ng/mL)	Optical Density	1	0.05	10	0.2	100	1.0	1000	5.0
Human ApoA1 concentration (ng/mL)	Optical Density												
1	0.05												
10	0.2												
100	1.0												
1000	5.0												
ELISA Detection	1:1000-1:10000	Human ApoA1 Detection Antibody (Biotin)											

**Note:** This standard curve is only for demonstration purposes. A standard curve should be generated for each assay!

## Background

ApoA1 is a major protein component of high density lipoproteins (HDL) which is associated with reversed cholesterol transport, lipid/cholesterol binding, lecithin/cholesterol acyltransferase (LCAT) activation and specific receptors binding. It is synthesized in the liver and small intestine. Defects of ApoA1 cause low HDL level and systemic non-neuropathic amyloidosis. Serum concentration of ApoA1 is inversely related to the risk of developing atherosclerosis. This antibody was generated against the C-terminal region of human ApoA1.