

## Human ApoA4 Antibody Pair Set

<b>Catalog No.</b>	E-KAB-0244	<b>Applications</b>	ELISA
<b>Synonyms</b>	APOA4, Apolipoprotein A-IV, ApoA-IV, ApoAIV, apoA4,		

### Kit components & Storage

Title	Specifications	Storage
Human ApoA4 Capture Antibody	1 vial, 100 µg	Store at -20°C for one year. Avoid freeze / thaw cycles.
Human ApoA4 Detection Antibody (Biotin)	1 vial, 50 µL	Store at -20°C for one year. Avoid freeze / thaw cycles.

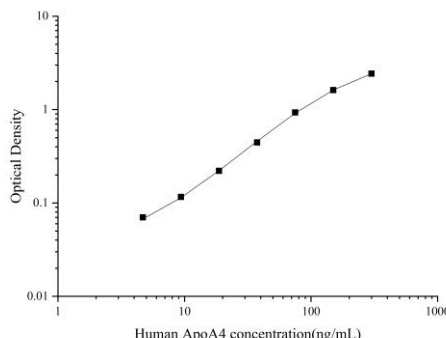
**Note:** Centrifuge before opening to ensure complete recovery of vial contents.

### Product Information

Items		Characteristic (E-KAB-0244)	
		Human ApoA4 Capture Antibody	Human ApoA4 Detection Antibody (Biotin)
Immunogen Information	Immunogen	Recombinant Human ApoA4 protein	Recombinant Human ApoA4 protein
	Swissprot	P06727	
Product details	Reactivity	Human	Human
	Host	Sheep	Sheep
	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	Antigen Affinity	Antigen Affinity
	Specificity	Detects Human ApoA4 in ELISAs.	

## Applications

### Human ApoA4 Sandwich ELISA Assay:

	Recommended Concentration/Dilution	Reagent	Images
ELISA Capture	0.5-4µg/mL	Human ApoA4 Capture Antibody	 <p>The graph is a log-log plot of Optical Density versus Human ApoA4 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 ApoA4 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>
ELISA Detection	1:1000-1:10000	Human ApoA4 Detection Antibody (Biotin)	

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

## Background

APOA4 is a major protein component of chylomicrons in postprandial lymph and plasma. It is synthesized in the small intestine and the liver, attached to chylomicrons by enterocytes, and secreted into intestinal lymph during fat absorption. APOA4 is intimately involved in metabolism and has protective roles in cardiovascular diseases like atherosclerosis. APOA4 can promote insulin secretion and maintain glucose homeostasis. It also has potent antioxidant and anti-inflammatory properties.