

Human LP-a Antibody Pair Set

Catalog No.	E-KAB-0243	Applications	ELISA
Synonyms	Lp(a) , LPA, AK38, APOA, LP		

Kit components & Storage

Title	Specifications	Storage
Human LP-a Capture Antibody	1 vial, 100 µg	Store at -20°C for one year. Avoid freeze / thaw cycles.
Human LP-a 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.

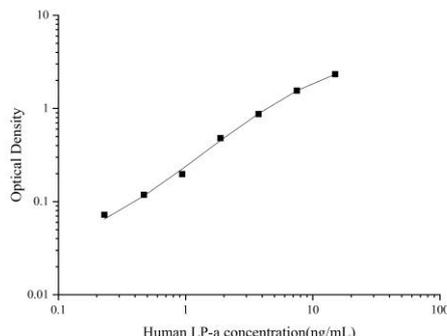
Product Information

Items		Characteristic (E-KAB-0243)	
		Human LP-a Capture Antibody	Human LP-a Detection Antibody (Biotin)
Immunogen Information	Immunogen	Native Protein	Native Protein
	Swissprot	P08519	
Product details	Reactivity	Human	Human
	Host	Rabbit	Rabbit
	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 LP-a in ELISAs.	

For Research Use Only

Applications

Human LP-a Sandwich ELISA Assay:

	Recommended Concentration/Dilution	Reagent	Images														
ELISA Capture	0.5-4µg/mL	Human LP-a Capture Antibody	 <p>The graph is a log-log plot with 'Optical Density' on the y-axis (ranging from 0.01 to 10) and 'Human LP-a concentration (ng/mL)' on the x-axis (ranging from 0.1 to 100). Six data points are plotted, showing a clear upward trend that appears linear on this scale.</p> <table border="1"> <caption>Approximate data points from the standard curve</caption> <thead> <tr> <th>Human LP-a concentration (ng/mL)</th> <th>Optical Density</th> </tr> </thead> <tbody> <tr> <td>0.2</td> <td>0.07</td> </tr> <tr> <td>0.5</td> <td>0.12</td> </tr> <tr> <td>1.0</td> <td>0.20</td> </tr> <tr> <td>2.0</td> <td>0.35</td> </tr> <tr> <td>5.0</td> <td>0.65</td> </tr> <tr> <td>10.0</td> <td>1.10</td> </tr> </tbody> </table>	Human LP-a concentration (ng/mL)	Optical Density	0.2	0.07	0.5	0.12	1.0	0.20	2.0	0.35	5.0	0.65	10.0	1.10
Human LP-a concentration (ng/mL)	Optical Density																
0.2	0.07																
0.5	0.12																
1.0	0.20																
2.0	0.35																
5.0	0.65																
10.0	1.10																
ELISA Detection	1:1000-1:10000	Human LP-a Detection Antibody (Biotin)															

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

Background

Lipoprotein A is an atherogenic lipoprotein particle formed by an assembly of LDL particles and apo(a) bound to apoB-100 component of LDL. Apolipoprotein A, the main constituent of Lipoprotein A, has serine proteinase activity and is capable of autoproteolysis. Apolipoprotein A has 4,548 amino acids, variable sizes from 200 to 700 kDa, multiple isoforms, and structural homology with plasminogen. It competes with plasminogen for its binding site, inhibiting tissue-type plasminogen activator 1 and leading to reduced fibrinolysis. High levels of Lipoprotein A in the blood is a risk factor for myocardial infarction (MI), coronary heart disease (CHD), cerebrovascular disease (CVD), atherosclerosis, thrombosis, and stroke.

For Research Use Only