

Human ANGPTL4 Antibody Pair Set

Catalog No.	E-KAB-0218	Applications	ELISA
Synonyms	ARP4, FIAF, HFARP, NL2, PGAR, pp1158, Fasting-Induced Adipose Factor		

Kit components & Storage

Title	Specifications	Storage
Human ANGPTL4 Capture Antibody	1 vial, 100 µg	Store at -20°C for one year. Avoid freeze / thaw cycles.
Human ANGPTL4 Detection Antibody (Biotin)	1 vial, 50 µL	Store at -20°C for one year. Avoid freeze / thaw cycles.

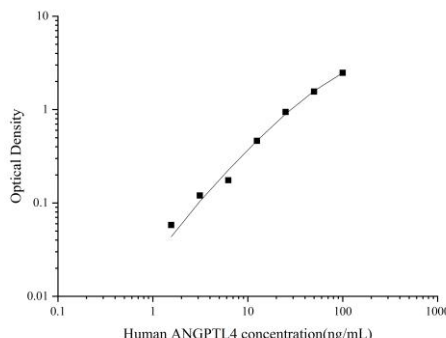
Note: Centrifuge before opening to ensure complete recovery of vial contents.

Product Information

Items		Characteristic (E-KAB-0218)	
		Human ANGPTL4 Capture Antibody	Human ANGPTL4 Detection Antibody (Biotin)
Immunogen Information	Immunogen	Recombinant Human ANGPTL4 protein	Recombinant Human ANGPTL4 protein
	Swissprot	Q9BY76	
Product details	Reactivity	Human	Human
	Host	Goat	Goat
	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 ANGPTL4 in ELISAs.		

Applications

Human ANGPTL4 Sandwich ELISA Assay:

	Recommended Concentration/Dilution	Reagent	Images																
ELISA Capture	0.5-4µg/mL	Human ANGPTL4 Capture Antibody	 <p>The graph displays a standard curve for the Human ANGPTL4 Sandwich ELISA Assay. The x-axis represents Human ANGPTL4 concentration in ng/mL, ranging from 0.1 to 1000 on a logarithmic scale. The y-axis represents Optical Density, ranging from 0.01 to 10 on a logarithmic scale. The data points form a straight line, indicating a linear relationship between the concentration of the protein and the optical density measured.</p> <table border="1"> <caption>Approximate data points from the standard curve</caption> <thead> <tr> <th>Human ANGPTL4 concentration (ng/mL)</th> <th>Optical Density</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>0.05</td> </tr> <tr> <td>2</td> <td>0.1</td> </tr> <tr> <td>5</td> <td>0.2</td> </tr> <tr> <td>10</td> <td>0.4</td> </tr> <tr> <td>20</td> <td>0.8</td> </tr> <tr> <td>50</td> <td>1.5</td> </tr> <tr> <td>100</td> <td>3.0</td> </tr> </tbody> </table>	Human ANGPTL4 concentration (ng/mL)	Optical Density	1	0.05	2	0.1	5	0.2	10	0.4	20	0.8	50	1.5	100	3.0
Human ANGPTL4 concentration (ng/mL)	Optical Density																		
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ELISA Detection	1:1000-1:10000	Human ANGPTL4 Detection Antibody (Biotin)																	

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

Background

This gene is a member of the angiopoietin/angiopoietin-like gene family and encodes a glycosylated, secreted protein with a fibrinogen C-terminal domain. This gene is induced under hypoxic conditions in endothelial cells and is the target of peroxisome proliferation activators. The encoded protein is a serum hormone directly involved in regulating glucose homeostasis, lipid metabolism, and insulin sensitivity and also acts as an apoptosis survival factor for vascular endothelial cells. The encoded protein may play a role in several cancers and it also has been shown to prevent the metastatic process by inhibiting vascular activity as well as tumor cell motility and invasiveness. Decreased expression of this protein has been associated with type 2 diabetes. Alternatively spliced transcript variants encoding different isoforms have been described. This gene was previously referred to as ANGPTL2 but has been renamed ANGPTL4.