

Human PF4 Antibody Pair Set

Catalog No. E-KAB-0224

Applications

ELISA

Synonyms CXCL4,PF-4,SCYB4

Kit components & Storage

Title	Specifications	Storage
Human PF4 Capture Antibody	1 vial, 100 µg	Store at -20°C for one year. Avoid freeze / thaw cycles.
Human PF4 Detection Antibody (Biotin)	1 vial, 50 µL	Store at -20°C for one year. Avoid freeze / thaw cycles.

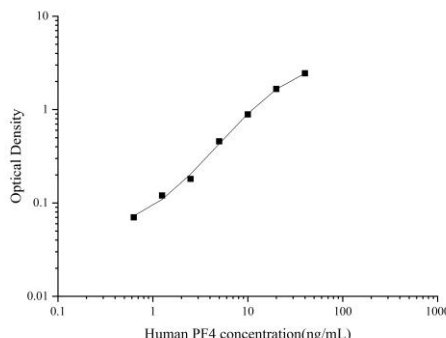
Note: Centrifuge before opening to ensure complete recovery of vial contents.

Product Information

Items		Characteristic (E-KAB-0224)	
		Human PF4 Capture Antibody	Human PF4 Detection Antibody (Biotin)
Immunogen Information	Immunogen	Recombinant Human PF4 protein	Recombinant Human PF4 protein
	Swissprot	P02776	
Product details	Reactivity	Human	Human
	Host	Mouse	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	Protein A or G	Antigen Affinity
	Specificity	Detects Human PF4 in ELISAs.	

Applications

Human PF4 Sandwich ELISA Assay:

	Recommended Concentration/Dilution	Reagent	Images																		
ELISA Capture	0.5-4µg/mL	Human PF4 Capture Antibody	 <p>The graph is a log-log plot. The x-axis is labeled 'Human PF4 concentration(ng/mL)' and ranges from 0.1 to 1000. The y-axis is labeled 'Optical Density' and ranges from 0.01 to 10. The data points form a smooth, upward-sloping curve, indicating a positive correlation between the concentration of Human PF4 and the optical density measured.</p> <table border="1"> <caption>Approximate data points from the standard curve</caption> <thead> <tr> <th>Human PF4 concentration (ng/mL)</th> <th>Optical Density</th> </tr> </thead> <tbody> <tr><td>0.5</td><td>0.05</td></tr> <tr><td>1</td><td>0.1</td></tr> <tr><td>2</td><td>0.2</td></tr> <tr><td>5</td><td>0.5</td></tr> <tr><td>10</td><td>1.0</td></tr> <tr><td>20</td><td>2.0</td></tr> <tr><td>50</td><td>5.0</td></tr> <tr><td>100</td><td>10.0</td></tr> </tbody> </table>	Human PF4 concentration (ng/mL)	Optical Density	0.5	0.05	1	0.1	2	0.2	5	0.5	10	1.0	20	2.0	50	5.0	100	10.0
Human PF4 concentration (ng/mL)	Optical Density																				
0.5	0.05																				
1	0.1																				
2	0.2																				
5	0.5																				
10	1.0																				
20	2.0																				
50	5.0																				
100	10.0																				
ELISA Detection	1:1000-1:10000	Human PF4 Detection Antibody (Biotin)																			

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

Background

PF4 (Platelet Factor 4) is a Protein Coding gene. Diseases associated with PF4 include Erythromelalgia and Thrombocytopenia. Among its related pathways are Peptide ligand-binding receptors and Chemokine Superfamily Pathway: Human/Mouse Ligand-Receptor Interactions. GO annotations related to this gene include heparin binding and CXCR3 chemokine receptor binding. An important paralog of this gene is PF4V1. This gene encodes a member of the CXC chemokine family. This chemokine is released from the alpha granules of activated platelets in the form of a homotetramer which has high affinity for heparin and is involved in platelet aggregation. This protein is chemotactic for numerous other cell type and also functions as an inhibitor of hematopoiesis, angiogenesis and T-cell function. The protein also exhibits antimicrobial activity against Plasmodium falciparum.