

## Mouse PF4 Antibody Pair Set

Catalog No. E-KAB-0340

Applications

ELISA

Synonyms CXCL4

### Kit components & Storage

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

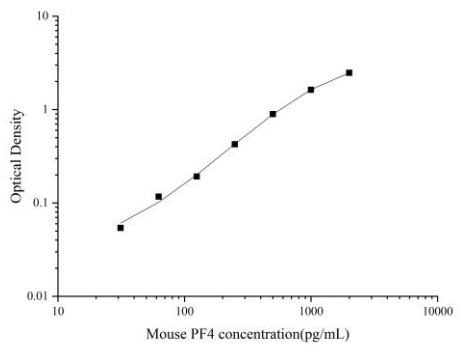
**Note:** Centrifuge before opening to ensure complete recovery of vial contents.

### Product Information

Items		Characteristic (E-KAB-0340)	
		Mouse PF4 Capture Antibody	Mouse PF4 Detection Antibody (Biotin)
Immunogen Information	Immunogen	Recombinant Mouse PF4 protein	Recombinant Mouse PF4 protein
	Swissprot	Q9Z126	
Product details	Reactivity	Mouse	Mouse
	Host	Rat	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 Mouse PF4 in ELISAs.	

## Applications

Mouse PF4 Sandwich ELISA Assay:

	Recommended Concentration/Dilution	Reagent	Images										
ELISA Capture	0.5-4µg/mL	Mouse PF4 Capture Antibody	 <p>The graph is a log-log plot of Optical Density versus Mouse PF4 concentration (pg/mL). The x-axis ranges from 10 to 10,000 pg/mL, and the y-axis ranges from 0.01 to 10. The data points form a straight line with a positive slope, indicating a linear relationship between the concentration of Mouse PF4 and the optical density.</p> <table border="1"> <caption>Approximate data points from the standard curve</caption> <thead> <tr> <th>Mouse PF4 concentration (pg/mL)</th> <th>Optical Density</th> </tr> </thead> <tbody> <tr> <td>10</td> <td>0.05</td> </tr> <tr> <td>100</td> <td>0.2</td> </tr> <tr> <td>1000</td> <td>1.0</td> </tr> <tr> <td>10000</td> <td>5.0</td> </tr> </tbody> </table>	Mouse PF4 concentration (pg/mL)	Optical Density	10	0.05	100	0.2	1000	1.0	10000	5.0
Mouse PF4 concentration (pg/mL)	Optical Density												
10	0.05												
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1000	1.0												
10000	5.0												
ELISA Detection	1:1000-1:10000	Mouse 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.