

Human PDGF-AB Antibody Pair Set

Catalog No.	E-KAB-0222	Applications	ELISA
Synonyms	PDGF-AB		

Kit components & Storage

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

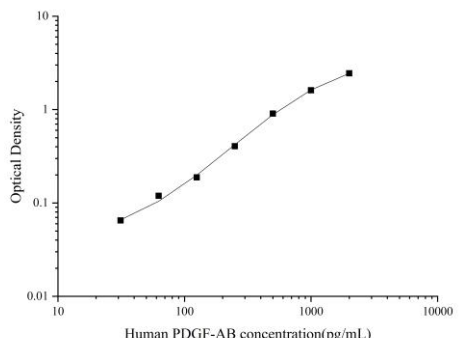
Note: Centrifuge before opening to ensure complete recovery of vial contents.

Product Information

Items		Characteristic (E-KAB-0222)	
		Human PDGF-AB Capture Antibody	Human PDGF-AB Detection Antibody (Biotin)
Immunogen Information	Immunogen	Recombinant Human PDGF-AB protein	Recombinant Human PDGF-AB protein
	Swissprot	P04085(PDGFA)&P01127(PDGFB)	
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 PDGF-AB in ELISAs.	

Applications

Human PDGF-AB Sandwich ELISA Assay:

	Recommended Concentration/Dilution	Reagent	Images										
ELISA Capture	0.5-4μg/mL	Human PDGF-AB Capture Antibody	 <p>The graph is a log-log plot of Optical Density versus Human PDGF-AB 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 show a clear upward trend, indicating that as the concentration of Human PDGF-AB 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> <table border="1"> <caption>Approximate data points from the standard curve</caption> <thead> <tr> <th>Human PDGF-AB 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>	Human PDGF-AB concentration (pg/mL)	Optical Density	10	0.05	100	0.2	1000	1.0	10000	5.0
Human PDGF-AB concentration (pg/mL)	Optical Density												
10	0.05												
100	0.2												
1000	1.0												
10000	5.0												
ELISA Detection	1:1000-1:10000	Human PDGF-AB Detection Antibody (Biotin)											

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

Background

The protein encoded by this gene is a member of the platelet-derived growth factor family. The four members of this family are mitogenic factors for cells of mesenchymal origin and are characterized by a motif of eight cysteines. This gene product can exist either as a homodimer or as a heterodimer with the platelet-derived growth factor beta polypeptide, where the dimers are connected by disulfide bonds. Studies using knockout mice have shown cellular defects in oligodendrocytes, alveolar smooth muscle cells, and Leydig cells in the testis; knockout mice die either as embryos or shortly after birth. Two splice variants have been identified for this gene.