

Human IGFBP-4 Antibody Pair Set

Catalog No.	E-KAB-0179	Applications	ELISA
Synonyms	IGFBP4, BP4, HT29-IGFBP, IBP4		

Kit components & Storage

Title	Specifications	Storage
Human IGFBP-4 Capture Antibody	1 vial, 100 µg	Store at -20°C for one year. Avoid freeze / thaw cycles.
Human IGFBP-4 Detection Antibody (Biotin)	1 vial, 50 µL	Store at -20°C for one year. Avoid freeze / thaw cycles.

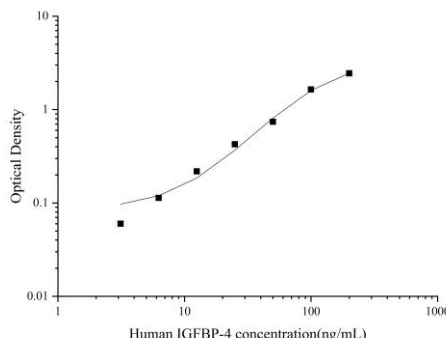
Note: Centrifuge before opening to ensure complete recovery of vial contents.

Product Information

Items		Characteristic (E-KAB-0179)	
		Human IGFBP-4 Capture Antibody	Human IGFBP-4 Detection Antibody (Biotin)
Immunogen Information	Immunogen	Recombinant Human IGFBP-4 protein	Recombinant Human IGFBP-4 protein
	Swissprot	P22692	
Product details	Reactivity	Human	Human
	Host	Mouse	Mouse
	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	Protein A or G
	Specificity	Detects Human IGFBP-4 in ELISAs.	

Applications

Human IGFBP-4 Sandwich ELISA Assay:

	Recommended Concentration/Dilution	Reagent	Images										
ELISA Capture	0.5-4µg/mL	Human IGFBP-4 Capture Antibody	 <p>The graph is a log-log plot of Optical Density versus Human IGFBP-4 concentration (ng/mL). The x-axis ranges from 1 to 1000 ng/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 IGFBP-4 increases, the optical density also increases. The curve is smooth and passes through several data points.</p> <table border="1"> <caption>Approximate data points from the standard curve</caption> <thead> <tr> <th>Human IGFBP-4 concentration (ng/mL)</th> <th>Optical Density</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>0.05</td> </tr> <tr> <td>10</td> <td>0.2</td> </tr> <tr> <td>100</td> <td>1.0</td> </tr> <tr> <td>1000</td> <td>5.0</td> </tr> </tbody> </table>	Human IGFBP-4 concentration (ng/mL)	Optical Density	1	0.05	10	0.2	100	1.0	1000	5.0
Human IGFBP-4 concentration (ng/mL)	Optical Density												
1	0.05												
10	0.2												
100	1.0												
1000	5.0												
ELISA Detection	1:1000-1:10000	Human IGFBP-4 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 insulin-like growth factor binding protein (IGFBP) family and encodes a protein with an IGFBP domain and a thyroglobulin type-I domain. The protein binds both insulin-like growth factors (IGFs) I and II and circulates in the plasma in both glycosylated and non-glycosylated forms. Binding of this protein prolongs the half-life of the IGFs and alters their interaction with cell surface receptors.