

Human IGF-1 Antibody Pair Set

Catalog No.	E-KAB-0038	Applications	ELISA
Synonyms	IGF1, IGF1, IGF-I, IGF1A, IGF-1A, IGF-1B, MGF, Somatomedin C		

Kit components & Storage

Title	Specifications	Storage
Human IGF-1 Capture Antibody	1 vial, 100 µg	Store at -20°C for one year. Avoid freeze / thaw cycles.
Human IGF-1 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.

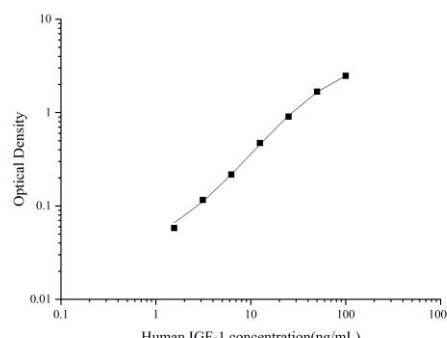
Product Information

Items		Characteristic (E-KAB-0038)	
		Human IGF-1 Capture Antibody	Human IGF-1 Detection Antibody (Biotin)
Immunogen Information	Immunogen	Recombinant Human IGF-1 protein	Recombinant Human IGF-1 protein
	Swissprot	P05019	
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 IGF-1 in ELISAs.	

For Research Use Only

Applications

Human IGF-1 Sandwich ELISA Assay:

	Recommended Concentration/Dilution	Reagent	Images																
ELISA Capture	0.5-4μg/mL	Human IGF-1 Capture Antibody	 <table><caption>Approximate data points from the standard curve</caption><thead><tr><th>Human IGF-1 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>2.5</td></tr></tbody></table>	Human IGF-1 concentration (ng/mL)	Optical Density	1	0.05	2	0.1	5	0.2	10	0.4	20	0.8	50	1.5	100	2.5
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ELISA Detection	1:1000-1:10000	Human IGF-1 Detection Antibody (Biotin)																	

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

Background

IGF1, also named as IBP1, MGF, IGF-1A and Somatomedin-C, belongs to the insulin family. IGF1 is structurally and functionally related to insulin but have a much higher growth-promoting activity. Altered expression or mutation of IGF-1 is associated with several human disorders, including type I diabetes and various forms of cancer. Defects in IGF1 are the cause of insulin-like growth factor I deficiency (IGF1 deficiency) which is an autosomal recessive disorder characterized by growth retardation, sensorineural deafness and mental retardation. The antibody is specific to isoform IGF-1A.

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