

Human IGF-2 Antibody Pair Set

Catalog No. E-KAB-0200

Applications

ELISA

Synonyms IGF2, IGF-II

Kit components & Storage

Title	Specifications	Storage
Human IGF-2 Capture Antibody	1 vial, 100 µg	Store at -20°C for one year. Avoid freeze / thaw cycles.
Human IGF-2 Detection Antibody (Biotin)	1 vial, 50 µL	Store at -20°C for one year. Avoid freeze / thaw cycles.

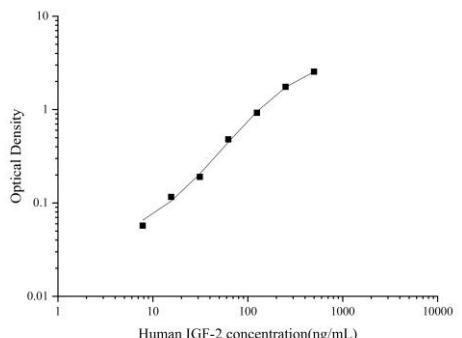
Note: Centrifuge before opening to ensure complete recovery of vial contents.

Product Information

Items		Characteristic (E-KAB-0200)	
		Human IGF-2 Capture Antibody	Human IGF-2 Detection Antibody (Biotin)
Immunogen Information	Immunogen	Recombinant Human IGF-2 protein	Recombinant Human IGF-2 protein
	Swissprot	P01344	
Product details	Reactivity	Human	Human
	Host	Goat	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	Antigen Affinity	Antigen Affinity
	Specificity	Detects Human IGF-2 in ELISAs.	

Applications

Human IGF-2 Sandwich ELISA Assay:

	Recommended Concentration/Dilution	Reagent	Images																
ELISA Capture	0.5-4µg/mL	Human IGF-2 Capture Antibody	 <p>The graph is a log-log plot of Optical Density versus Human IGF-2 concentration (ng/mL). The x-axis ranges from 1 to 10,000 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 IGF-2 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 IGF-2 concentration (ng/mL)</th> <th>Optical Density</th> </tr> </thead> <tbody> <tr> <td>10</td> <td>0.05</td> </tr> <tr> <td>20</td> <td>0.1</td> </tr> <tr> <td>50</td> <td>0.2</td> </tr> <tr> <td>100</td> <td>0.4</td> </tr> <tr> <td>200</td> <td>0.8</td> </tr> <tr> <td>500</td> <td>1.5</td> </tr> <tr> <td>1000</td> <td>3.0</td> </tr> </tbody> </table>	Human IGF-2 concentration (ng/mL)	Optical Density	10	0.05	20	0.1	50	0.2	100	0.4	200	0.8	500	1.5	1000	3.0
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ELISA Detection	1:1000-1:10000	Human IGF-2 Detection Antibody (Biotin)																	

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

Background

This gene encodes a member of the insulin family of polypeptide growth factors, which are involved in development and growth. It is an imprinted gene, expressed only from the paternal allele, and epigenetic changes at this locus are associated with Wilms tumour, Beckwith-Wiedemann syndrome, rhabdomyosarcoma, and Silver-Russell syndrome. A read-through INS-IGF2 gene exists, whose 5' region overlaps the INS gene and the 3' region overlaps this gene. Alternatively spliced transcript variants encoding different isoforms have been found for this gene.