

## Mouse IGF-1 Antibody Pair Set

<b>Catalog No.</b>	E-KAB-0077	<b>Applications</b>	ELISA
<b>Synonyms</b>	IGF1, IGF1, IGF-I, IGF1A, IGF-1A, IGF-1B, MGF, Somatomedin C		

### Kit components & Storage

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

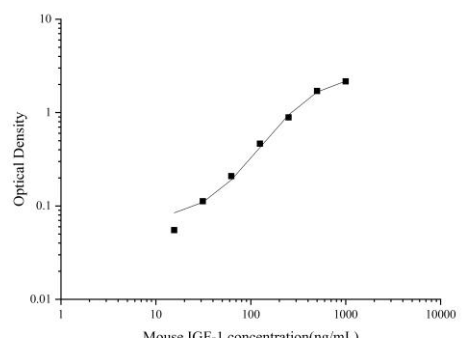
### Product Information

Items		Characteristic (E-KAB-0077)	
		Mouse IGF-1 Capture Antibody	Mouse IGF-1 Detection Antibody (Biotin)
Immunogen Information	Immunogen	Recombinant Mouse IGF-1 protein	Recombinant Mouse IGF-1 protein
	Swissprot	P05017	
Product details	Reactivity	Mouse	Mouse
	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 Mouse IGF-1 in ELISAs.	

### For Research Use Only

## Applications

### Mouse IGF-1 Sandwich ELISA Assay:

	Recommended Concentration/Dilution	Reagent	Images																
ELISA Capture	0.5-4μg/mL	Mouse IGF-1 Capture Antibody	 <table><caption>Approximate data points from the standard curve</caption><thead><tr><th>Mouse IGF-1 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>2.0</td></tr></tbody></table>	Mouse IGF-1 concentration (ng/mL)	Optical Density	10	0.05	20	0.1	50	0.2	100	0.4	200	0.8	500	1.5	1000	2.0
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ELISA Detection	1:1000-1:10000	Mouse 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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