

Rat IGF-1 Antibody Pair Set

Catalog No.	E-KAB-0650	Applications	ELISA
Synonyms	IGF1;IGFI;IGF-I;IGF1A;IGF-IA;IGF-IB;MGF;Somatomedin C		

Kit components & Storage

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

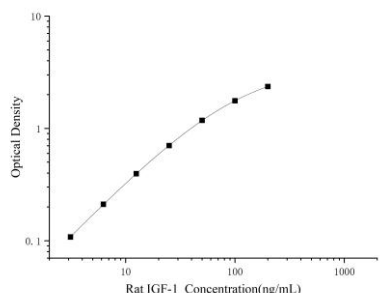
Note: Centrifuge before opening to ensure complete recovery of vial contents.

Product Information

Items		Characteristic (E-KAB-0650)	
		Rat IGF-1 Capture Antibody	Rat IGF-1 Detection Antibody (Biotin)
Immunogen Information	Immunogen	Recombinant Rat IGF-1 protein	Recombinant Rat IGF-1 protein
	Swissprot	P08025	
Product details	Reactivity	Rat	Rat
	Host	Goat	Goat
	Conjugation	Unconjugated	Biotin
	Concentration	0.5 mg/mL	/
	Buffer	PBS with 0.04% Proclin 300; 50% glycerol; pH 7.5	PBS with 0.04% Proclin 300; 1% protective protein; 50% glycerol; pH 7.5
	Purify	Antigen Affinity	Antigen Affinity
	Specificity	Detects Rat IGF-1 in ELISAs.	

Applications

Rat IGF-1 Sandwich ELISA Assay:

	Recommended Concentration/Dilution	Reagent	Images
ELISA Capture	0.5-4 µg/mL	Rat IGF-1 Capture Antibody	
ELISA Detection	1:1000-1:10000	Rat 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.