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Rabbit Anti-IGF I/Biotin Conjugated antibody

SL4588R-Bio

Product Name	Anti-IGF I/Biotin
Chinese Name	生物素标记的胰岛素样生长因子 1 抗体
Alias	IBP1; IGF 1; IGF I; IGF-1;IGF IA; IGF IB; IGF1; IGFI; IGFIA; Insulin like growth factor 1 (somatomedin C); Full=Insulin-like growth factor I; Insulin Like Growth Factor 1; Insulin like growth factor IA; Insulin like growth factor IB; Mechano growth factor; MGF; Mechano growth factor; MGF; Somatomedia C; Somatomedin C; IGF1_HUMAN.
Research Area	Cell biology Developmental biology Signal transduction Growth factors and hormones Diabetes
Immunogen Species	Rabbit
Clonality	Polyclonal
React Species	Human,Rat(predicted:Mouse,Dog,Pig,Cow,Rabbit,Sheep)
Applications	WB=1:500-2000,IHC-P=1:100-500,IHC-F=1:100-500,IF=1:100-500 not yet tested in other applications. optimal dilutions/concentrations should be determined by the end user.
Molecular weight	7.7/21kDa
Form	Lyophilized or Liquid
Concentration	1mg/ml
immunogen	KLH conjugated synthetic peptide derived from human IGF I
Lsotype	IgG
Purification	affinity purified by Protein A
Storage Buffer	1M TBS(pH7.4) with 1% BSA, 3% Proclin300 and 50% Glycerol.
Storage	Store at -20 °C for one year. Avoid repeated freeze/thaw cycles. The lyophilized antibody is stable at room temperature for at least one month and for greater than a year when kept at -20°C. When reconstituted in sterile pH 7.4 1M PBS or diluent of antibody the antibody is stable for at least two weeks at 2-4 °C.
Product Detail	**background:** The protein encoded by this gene is similar to insulin in function and structure and is a member of a family of proteins involved in mediating growth and development. The encoded protein is processed from a precursor, bound by a

specific receptor, and secreted. Defects in this gene are a cause of insulin-like growth factor I deficiency. Several transcript variants encoding different isoforms have been found for this gene.[provided by RefSeq, Mar 2009]

Function:
The insulin-like growth factors, isolated from plasma, are structurally and functionally related to insulin but have a much higher growth-promoting activity. May be a physiological regulator of [1-14C]-2-deoxy-D-glucose (2DG) transport and glycogen synthesis in osteoblasts. Stimulates glucose transport in rat bone-derived osteoblastic (PyMS) cells and is effective at much lower concentrations than insulin, not only regarding glycogen and DNA synthesis but also with regard to enhancing glucose uptake.

Subcellular Location:
Secreted.

DISEASE:
Defects in IGF1 are the cause of insulin-like growth factor I deficiency (IGF1 deficiency) [MIM:608747]. IGF1 deficiency is an autosomal recessive disorder characterized by growth retardation, sensorineural deafness and mental retardation.

Similarity:
Belongs to the insulin family.

Database links:

Entrez Gene: 3479 Human

Omim: 147440 Human

SwissProt: P05019 Human

Unigene: 160562 Human

Important Note:
This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.

胰岛素样生长因子 1(IGF-1)是一种生长调节激素，由肝分泌并入血液循环的中性多肽，具有调节生长和代谢、胰岛素样及促细胞分裂的活性。