

## Rabbit Anti-IGF I/AP Conjugated antibody

SL4588R-AP

<b>Product Name</b>	Anti-IGF I/AP
<b>Chinese Name</b>	碱性磷酸酶 (AP) 标记的胰岛素样生长因子 1 抗体
<b>Alias</b>	IBP1; IGF 1; IGF I; IGF-1;IGF IA; IGF IB; IGF1; IGFI; IGFI A; 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.
<b>Research Area</b>	Cell biology Developmental biology Signal transduction Growth factors and hormones Diabetes
<b>Immunogen Species</b>	Rabbit
<b>Clonality</b>	Polyclonal
<b>React Species</b>	Human,Rat(predicted:Mouse,Dog,Pig,Cow,Rabbit,Sheep) WB=1:500-2000,IHC-P=1:100-500,IHC-F=1:100-500
<b>Applications</b>	not yet tested in other applications. optimal dilutions/concentrations should be determined by the end user.
<b>Molecular weight</b>	7.7/21kDa
<b>Form</b>	Lyophilized or Liquid
<b>Concentration</b>	1mg/ml
<b>immunogen</b>	KLH conjugated synthetic peptide derived from human IGF I
<b>Lsotype</b>	IgG
<b>Purification</b>	affinity purified by Protein A
<b>Storage Buffer</b>	1M TBS(pH7.4) with 1% BSA, 3% Proclin300 and 50% Glycerol. 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.
<b>Storage</b>	
<b>Product Detail</b>	<b>background:</b> 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

[Omir: 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。