Best Tools for immunology Research

IGF-I Polyclonal Antibody

Catalog No :	YT2288
Reactivity :	Human;Mouse;Rat
Applications :	IHC;IF;ELISA
Target :	IGF-I
Gene Name :	IGF1
Protein Name :	Insulin-like growth factor I
Human Gene Id :	3479
Human Swiss Prot No :	P05019
Mouse Gene Id :	16000
Rat Gene Id :	24482
Rat Swiss Prot No :	P08025
Immunogen :	The antiserum was produced against synthesized peptide derived from human IGF-I. AA range:100-149
Specificity :	IGF-I Polyclonal Antibody detects endogenous levels of IGF-I protein.
Formulation :	Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% sodium azide.
Source :	Polyclonal, Rabbit,IgG
Dilution :	IHC 1:100 - 1:300. ELISA: 1:10000.. IF 1:50-200
Purification :	The antibody was affinity-purified from rabbit antiserum by affinity-chromatography using epitope-specific immunogen.
Concentration :	1 mg/ml

Storage Stability : -15°C to -25°C/1 year(Do not lower than -25°C)

Molecularweight : 17-22kD

Cell Pathway : Oocyte meiosis;p53;mTOR;Focal adhesion;Long-term depression;Progesterone-mediated oocyte maturation;Aldosterone-regulated sodium reabsorption;Pathways in cancer;Glioma;Prostate cancer;Melanoma;Hypertr

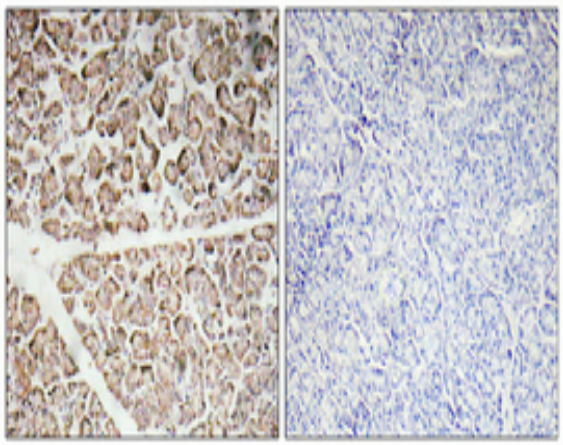
Background : The protein encoded by this gene is similar to insulin in function and structure and is a member of a family of proteins involved in mediating growth and development. The encoded protein is processed from a precursor, bound by a specific receptor, and secreted. Defects in this gene are a cause of insulin-like growth factor I deficiency. Alternative splicing results in multiple transcript variants encoding different isoforms that may undergo similar processing to generate mature protein. [provided by RefSeq, Sep 2015],

Function : 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.,function:The insulin-like growth factors, isolated from plasma, are structurally and functionally related to insulin but have a much higher growth-promoting activity.,online information:Insulin-like growth factor 1 entry,online information:The Singapore human mutation and polymorphism database,similarity:Belongs to the insulin family.,

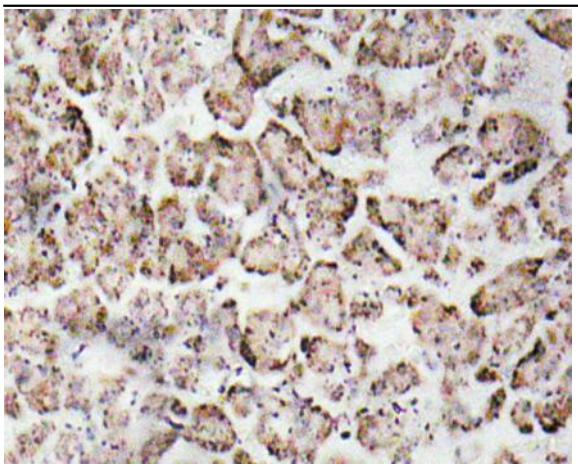
Subcellular Location : extracellular region,extracellular space,plasma membrane,insulin-like growth factor binding protein complex,platelet alpha granule lumen,alphav-beta3 integrin-IGF-1-IGF1R complex,insulin-like growth factor ternary complex,exocytic vesicle,

Expression : Brain,Liver,PCR rescued clones,

Products Images



Immunohistochemical analysis of paraffin-embedded Human pancreas. Antibody was diluted at 1:100(4° overnight). High-pressure and temperature Tris-EDTA,pH8.0 was used for antigen retrieval. Negetive contrl (right) obtaned from antibody was pre-absorbed by immunogen peptide.



Immunohistochemistry analysis of IGF-I antibody in paraffin-embedded human pancreas tissue.