



GH/hPL (ABT83R) Rabbit mAb (Ready to Use)

Catalog No	YP-rAb-18234
Isotype	IgG
Reactivity	Human
Applications	IHC
Gene Name	CSH1;CSH2;GH1
Protein Name	Lactogen Placental lactogen PL hPL gH GH-N GH1 GHB5 GHN Growth hormone 1 Growth hormone Growth hormone B5 Growth hormone, normal Growth hormone, pituitary HG1 hGH-N IGHD1B Pituitary growth hormone RNGHGP SOMA_HUMAN Somatotropin
Purification Process	Protein A
Specificity	This antibody detects endogenous levels of Humanm Placental lactogen
Formulation	The prediluted ready-to-use antibody is diluted in phosphate buffer saline containing stabilizing protein and 0.05% Proclin 300
Source	Monoclonal, Rabbit,IgG
Dilution	Ready to use for IHC Note: For IHC, we suggest antigen retrieval with TE buffer pH 9.0
Concentration	0.5 mg/ml
Purity	≥90%
Storage Stability	2° C to 8° C/1 year,Ship by ice bag
Synonyms	Lactogen ; Placental lactogen ; PL ; hPL ; gH ; GH-N ; GH1 ; GHB5 ; GHN ; Growth hormone 1 ; Growth hormone ; Growth hormone B5 ; Growth hormone, normal ; Growth hormone, pituitary ; HG1 ; hGH-N ; IGHD1B ; Pituitary growth hormone ; RNGHGP ; SOMA_HUMAN ; Somatotropin
Observed Band	
Calculated Molecular Weight	
Cell Pathway	Cytoplasmic
Tissue Specificity	Placenta
Function	Alternative products:Additional isoforms seem to exist,Disease:Defects in GH1 are a cause of isolated growth hormone deficiency type IB (IGHD IB) [MIM:262400]; also known as pituitary dwarfism I. IGHD IB is an autosomal recessive deficiency of GH which causes short stature.,Disease:Defects in GH1 are a cause of isolated growth hormone deficiency type II (IGHD II) [MIM:173100]. IGHD II is an autosomal dominant deficiency of GH which causes short





stature. .Disease:Defects in GH1 are the cause of Kowarski syndrome [MIM:262650]; also known as pituitary dwarfism VI. .Disease:Defects in GH1 may be a cause of short stature [MIM:604271]. Short stature is defined by a subnormal rate of growth. .Function:Plays an important role in growth control. Its major role in stimulating body growth is to stimulate the liver and other tissues to secrete IGF-1. It stimulates both the differentiation and proliferation of myoblasts. It also stimulates amino acid uptake and protein synthesis in muscle and other tissues. .miscellaneous:Circulating GH shows a great heterogeneity due to alternative splicing, differential post-translational modifications of monomeric forms, oligomerization, optional binding to 2 different GH-binding proteins, and potentially proteolytic processing. .online information:Growth hormone entry. .pharmaceutical:Available under the names Nutropin or Protropin (Genentech), Norditropin (Novo Nordisk), Genotropin (Pharmacia Upjohn), Humatrope (Eli Lilly) and Saizen or Serostim (Serono). Used for the treatment of growth hormone deficiency and for Turner's syndrome. .similarity:Belongs to the somatotropin/prolactin family. .subunit:Monomer, dimer, trimer, tetramer and pentamer, disulfide-linked or non-covalently associated, in homopolymeric and heteropolymeric combinations. Can also form a complex either with GHBP or with the alpha2-macroglobulin complex. .

Background

The protein encoded by this gene is a member of the somatotropin/prolactin family of hormones which play an important role in growth control. The gene, along with four other related genes, is located at the growth hormone locus on chromosome 17 where they are interspersed in the same transcriptional orientation; an arrangement which is thought to have evolved by a series of gene duplications. The five genes share a remarkably high degree of sequence identity. Alternative splicing generates additional isoforms of each of the five growth hormones, leading to further diversity and potential for specialization. This particular family member is expressed in the pituitary but not in placental tissue as is the case for the other four genes in the growth hormone locus. Mutations in or deletions of the gene lead to growth hormone deficiency and short stature. [provided by RefSeq, Jul 2008],

matters needing attention

Avoid repeated freezing and thawing!

Usage suggestions

This product can be used in immunological reaction related experiments. For more information, please consult technical personnel.

