abcam

Product datasheet

Anti-Human Growth Hormone antibody ab34867

Overview

Product name	Anti-Human Growth Hormone antibody
Description	Guinea pig polyclonal to Human Growth Hormone
Host species	Guinea pig
Tested applications	**Suitable for:** RIA, Immunomicroscopy
Species reactivity	**Reacts with:** Human
Immunogen	Native Human growth hormone.

Properties

Form	Liquid
Storage instructions	Aliquot and store at -80°C (add 1% BSA for extra stability). Avoid repeated freeze / thaw cycles.
Storage buffer	Preservative: 0.2% Sodium azide
Purity	Whole antiserum
Purification notes	The antibody is supplied as a dilute serum (prediluted 1/50 -1/200).
Clonality	Polyclonal
Isotype	IgG

Applications

The Abpromise guarantee Our Abpromise guarantee covers the use of ab34867 in the following tested applications.

The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

Application	Abreviews	Notes
RIA		1/500.
Immunomicroscopy		1/2000 - 1/20000.

Target

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.
Involvement in disease	Defects in GH1 are a cause of growth hormone deficiency isolated type 1A (IGHD1A) [MIM:262400]; also known as pituitary dwarfism I. IGHD1A is an autosomal recessive deficiency of GH which causes short stature. IGHD1A patients have an absence of GH with severe dwarfism and often develop anti-GH antibodies when given exogenous GH. Defects in GH1 are a cause of growth hormone deficiency isolated type 1B (IGHD1B) [MIM:612781]; also known as dwarfism of Sindh. IGHD1B is an autosomal recessive deficiency of GH which causes short stature. IGHD1B patients have low but detectable levels of GH. Dwarfism is less severe than in IGHD1A and patients usually respond well to exogenous GH. Defects in GH1 are the cause of Kowarski syndrome (KWKS) [MIM:262650]; also known as pituitary dwarfism VI. Defects in GH1 are a cause of growth hormone deficiency isolated type 2 (IGHD2) [MIM:173100]. IGHD2 is an autosomal dominant deficiency of GH which causes short stature. Clinical severity is variable. Patients have a positive response and immunologic tolerance to growth hormone therapy.
Sequence similarities	Belongs to the somatotropin/prolactin family.
Cellular localization	Secreted.

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