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GH2 Antibody (N-term)

Affinity Purified Rabbit Polyclonal Antibody (Pab)

Catalog # AP16456a

Specification

GH2 Antibody (N-term) - Product Information

Application	**WB,E**
Primary Accession	P01242
Other Accession	NP_002050.1
Reactivity	**Human**
Host	**Rabbit**
Clonality	**Polyclonal**
Isotype	**Rabbit IgG**
Calculated MW	**25000**
Antigen Region	**19-45**

GH2 Antibody (N-term) - Additional Information

Gene ID 2689

Other Names
Growth hormone variant, GH-V, Growth hormone 2, Placenta-specific growth hormone, GH2

Target/Specificity
This GH2 antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 19-45 amino acids from the N-terminal region of human GH2.

Dilution
WB~~1:1000
E~~Use at an assay dependent concentration.

Format
Purified polyclonal antibody supplied in PBS with 0.09% (W/V) sodium azide. This antibody is purified through a protein A column, followed by peptide affinity purification.

Storage
Maintain refrigerated at 2-8°C for up to 2 weeks. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.

Precautions
GH2 Antibody (N-term) is for research use only and not for use in diagnostic or therapeutic procedures.

GH2 Antibody (N-term) - Protein Information

Name GH2

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 IGF1. It stimulates both the differentiation and proliferation of myoblasts. It also stimulates amino acid uptake and protein synthesis in muscle and other tissues.

Cellular Location
Secreted.

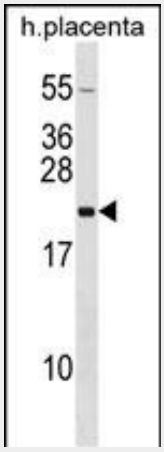
Tissue Location
Expressed in the placenta.

GH2 Antibody (N-term) - Protocols

Provided below are standard protocols that you may find useful for product applications.

- Western Blot
- Blocking Peptides
- Dot Blot
- Immunohistochemistry
- Immunofluorescence
- Immunoprecipitation
- Flow Cytomety
- Cell Culture

GH2 Antibody (N-term) - Images



GH2 Antibody (N-term) (Cat. #AP16456a) western blot analysis in human placenta tissue lysates (35ug/lane).This demonstrates the GH2 antibody detected the GH2 protein (arrow).

GH2 Antibody (N-term) - 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. As in the case

of its pituitary counterpart, growth hormone 1, the predominant isoform of this particular family member shows similar somatogenic activity, with reduced lactogenic activity. Mutations in this gene lead to placental growth hormone/lactogen deficiency. [provided by RefSeq].

GH2 Antibody (N-term) - References

McElholm, A.R., et al. Gastroenterology 139(1):204-212(2010)
de Jesus Romero-Prado, M.M., et al. Gene 452(1):7-15(2010)
Christiansen, M. Prenat. Diagn. 29(13):1249-1255(2009)
Zeck, W., et al. Pediatr. Res. 63(4):353-357(2008)
Mittal, P., et al. J. Matern. Fetal. Neonatal. Med. 20(9):651-659(2007)