10320 Camino Santa Fe, Suite G
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Mouse Monoclonal Antibody to GH1

Purified Mouse Monoclonal Antibody
Catalog # AO2416a

Specification

Mouse Monoclonal Antibody to GH1 - Product Information

Application	**WB, FC, E**
Primary Accession	P01241
Reactivity	**Human**
Host	**Mouse**
Clonality	**Monoclonal**
Isotype	**Mouse IgG1**
Calculated MW	**24.8kDa KDa**

Description
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.;

Immunogen
Purified recombinant fragment of human GH1 (AA: 1-217) expressed in E. Coli.

Formulation
Purified antibody in PBS with 0.05% sodium azide

Application Note
ELISA: 1/10000; WB: 1/500 - 1/2000; FCM: 1/200 - 1/400

Mouse Monoclonal Antibody to GH1 - Additional Information

Gene ID 2688

Other Names
GH; GHN; GH-N; GHB5; hGH-N; IGHD1B

Dilution
WB~~1:1000
FC~~1:10~50
E~~N/A

Storage
Maintain refrigerated at 2-8°C for up to 6 months. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.

Precautions
Mouse Monoclonal Antibody to GH1 is for research use only and not for use in diagnostic or therapeutic procedures.

Mouse Monoclonal Antibody to GH1 - Protein Information

Name GH1

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.

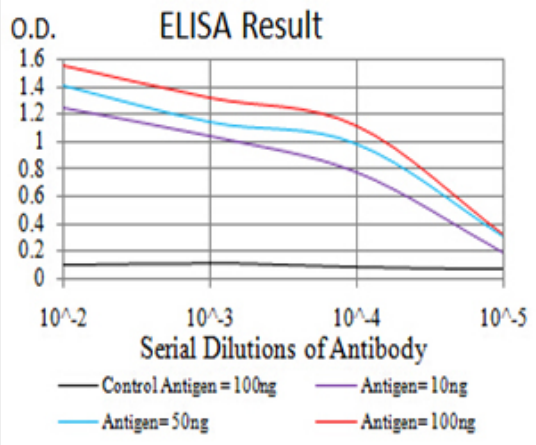
Cellular Location
Secreted

Mouse Monoclonal Antibody to GH1 - 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

Mouse Monoclonal Antibody to GH1 - Images



Black line: Control Antigen (100 ng);Purple line: Antigen (10ng); Blue line: Antigen (50 ng); Red line:Antigen (100 ng)

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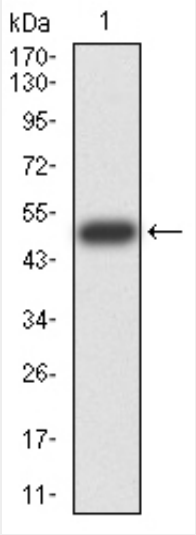
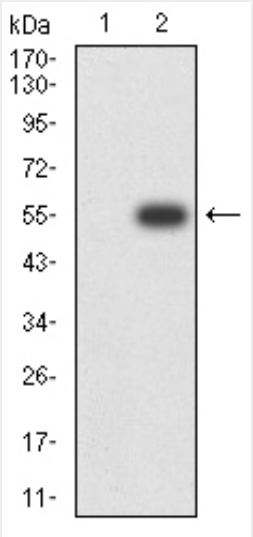
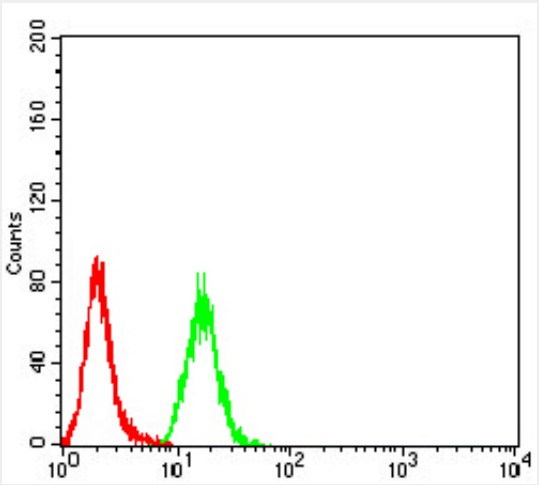


Western blot analysis using GH1 mAb against human GH1 (AA: 1-217) recombinant protein. (Expected MW is 50.8 kDa)



Western blot analysis using GH1 mAb against HEK293 (1) and GH1 (AA: 1-217)-hIgGFc transfected HEK293 (2) cell lysate.



Flow cytometric analysis of Hela cells using GH1 mouse mAb (green) and negative control (red).

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Mouse Monoclonal Antibody to GH1 - References

1.Asian Pac J Cancer Prev. 2015;16(13):5421-5. ; 2.Tumour Biol. 2014 May;35(5):4529-38.;