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Mouse Monoclonal Antibody to GH1

Purified Mouse Monoclonal Antibody
Catalog # AO2416a

Product Information

Application	WB, FC, E
Primary Accession	P01241
Reactivity	Human
Host	Mouse
Clonality	Monoclonal
Clone Names	3H1C2
Isotype	Mouse IgG1
Calculated MW	24847
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

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.

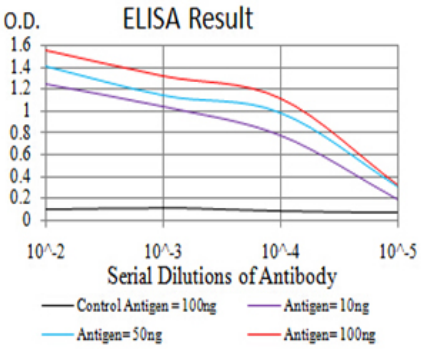
Protein Information

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

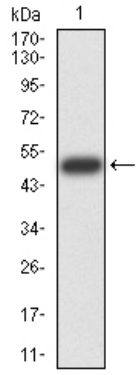
References

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

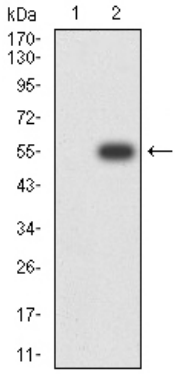
Images



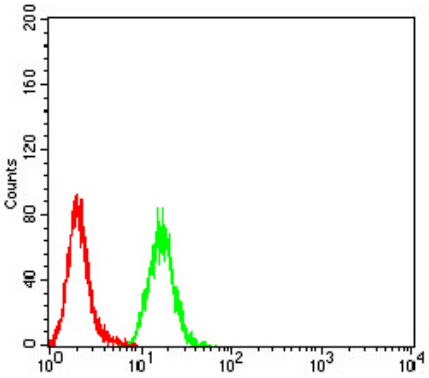
Black line: Control Antigen (100 ng);Purple line: Antigen (10ng); Blue line: Antigen (50 ng); Red line:Antigen (100 ng)



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).

Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.