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Myostatin (GDF8) Antibody (N-term)

Purified Rabbit Polyclonal Antibody (Pab)
Catalog # AP2068A

Product Information

Application	IHC-P, WB, E
Primary Accession	O14793
Other Accession	O18831, Q95J86, O18836
Reactivity	Human, Mouse
Predicted	Monkey, Pig, Bovine, Canine, Rabbit
Host	Rabbit
Clonality	Polyclonal
Isotype	Rabbit IgG
Calculated MW	42750
Antigen Region	9-38

Additional Information

Gene ID	2660
Other Names	Growth/differentiation factor 8, GDF-8, Myostatin, MSTN, GDF8
Target/Specificity	This Myostatin (GDF8) antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 9-38 amino acids from the N-terminal region of human Myostatin (GDF8).
Dilution	IHC-P~~1:100~500 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	Myostatin (GDF8) Antibody (N-term) is for research use only and not for use in diagnostic or therapeutic procedures.

Protein Information

Name	MSTN
Synonyms	GDF8
Function	Acts specifically as a negative regulator of skeletal muscle growth.

Cellular Location Secreted {ECO:0000250|UniProtKB:O08689}.

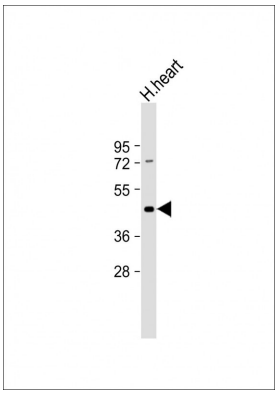
Background

GDF8 is a member of the bone morphogenetic protein (BMP) family and the TGF-beta superfamily. This group of proteins is characterized by a polybasic proteolytic processing site which is cleaved to produce a mature protein containing seven conserved cysteine residues. The members of this family are regulators of cell growth and differentiation in both embryonic and adult tissues. This gene is thought to encode a secreted protein which negatively regulates skeletal muscle growth.

References

Hill, J.J., et al., J. Biol. Chem. 277(43):40735-40741 (2002). Hamrick, M.W., et al., Calcif. Tissue Int. 71(1):63-68 (2002). Welle, S., et al., Exp. Gerontol. 37(6):833-839 (2002). Ducy, P., et al., Kidney Int. 57(6):2207-2214 (2000). Ferrell, R.E., et al., Genomics 62(2):203-207 (1999).

Images



Anti-Myostatin (GDF8) Antibody (N-term) at 1:2000 dilution + Human heart lysate Lysates/proteins at 20 µg per lane. Secondary Goat Anti-Rabbit IgG, (H+L), Peroxidase conjugated at 1/10000 dilution. Predicted band size : 43 kDa Blocking/Dilution buffer: 5% NFDM/TBST.



Formalin-fixed and paraffin-embedded human skeletal muscle tissue reacted with GDF8 antibody (N-term)(Cat.#AP2068a), which was peroxidase-conjugated to the secondary antibody, followed by DAB staining. This data demonstrates the use of this antibody for immunohistochemistry; clinical relevance has not been evaluated.

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