

For Research Use Only

GDF8/Myostatin Polyclonal antibody



Catalog Number: 19142-1-AP

Featured Product

31 Publications

Basic Information

Catalog Number:

19142-1-AP

Size:

550 µg/ml

Source:

Rabbit

Isotype:

IgG

Immunogen Catalog Number:

AG13605

GenBank Accession Number:

BC074757

GeneID (NCBI):

2660

UNIPROT ID:

O14793

Full Name:

myostatin

Calculated MW:

375 aa, 43 kDa

Observed MW:

50 and 35 kDa

Purification Method:

Antigen affinity purification

Recommended Dilutions:

WB 1:500-1:2000

IHC 1:50-1:500

Applications

Tested Applications:

IHC, WB, ELISA

Cited Applications:

WB, IF, IHC

Species Specificity:

human, mouse

Cited Species:

human, rat, sheep, mouse, zebrafish, pig, bovine

Note-IHC: suggested antigen retrieval with TE buffer pH 9.0; (*) Alternatively, antigen retrieval may be performed with citrate buffer pH 6.0

Positive Controls:

WB : human placenta tissue, mouse liver tissue, PC-3 cells, mouse heart tissue

IHC : human heart tissue, mouse brain tissue

Background Information

Myostatin, also known as GDF-8, is a member of the TGF-beta superfamily. Myostatin is expressed in the myotome and developing skeletal muscles. Myostatin negatively regulates skeletal muscle growth and development through the regulation of anabolic and catabolic pathways in skeletal muscles. Myostatin immunoreactive bands could be identified at 50, 32-35, and 16 kDa, which correspond to the precursor, glycosylated dimer, and monomer, respectively (PMID: 17711997).

Notable Publications

Author	Pubmed ID	Journal	Application
Hejie Wang	36178582	In Vitro Cell Dev Biol Anim	WB
Chiara Barisione	34576046	Int J Mol Sci	WB,IHC,IF
Dengqiu Xu	30362548	J Cell Physiol	WB

Storage

Storage:

Store at -20°C. Stable for one year after shipment.

Storage Buffer:

PBS with 0.02% sodium azide and 50% glycerol pH 7.3.

Aliquoting is unnecessary for -20°C storage

For technical support and original validation data for this product please contact:

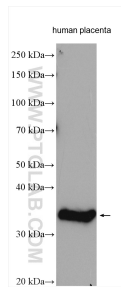
T: 4006900926

E: Proteintech-CN@ptglab.com

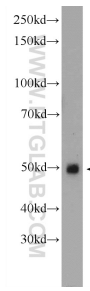
W: ptgcn.com

This product is exclusively available under Proteintech Group brand and is not available to purchase from any other manufacturer.

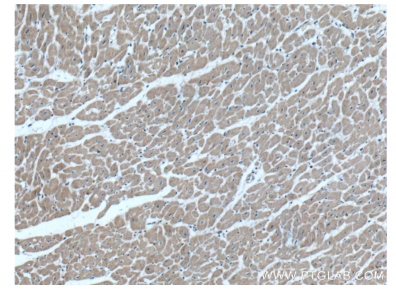
Selected Validation Data



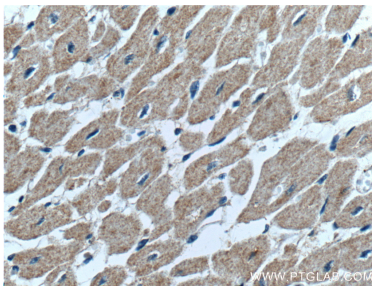
human placenta tissue were subjected to SDS PAGE followed by western blot with 19142-1-AP (GDF8/Myostatin antibody) at dilution of 1:1000 incubated at room temperature for 1.5 hours.



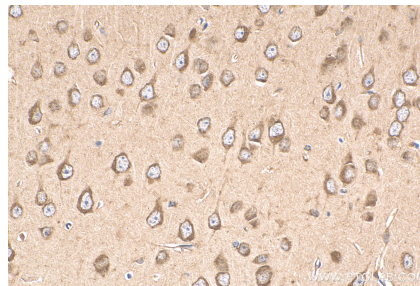
mouse heart tissue were subjected to SDS PAGE followed by western blot with 19142-1-AP (GDF8/Myostatin antibody at dilution of 1:600 incubated at room temperature for 1.5 hours.



Immunohistochemical analysis of paraffin-embedded human heart tissue slide using 19142-1-AP (GDF8/Myostatin antibody at dilution of 1:200 (under 10x lens).



Immunohistochemical analysis of paraffin-embedded human heart tissue slide using 19142-1-AP (GDF8/Myostatin antibody at dilution of 1:200 (under 40x lens).



Immunohistochemical analysis of paraffin-embedded mouse brain tissue slide using 19142-1-AP (GDF8/Myostatin antibody) at dilution of 1:200 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).