

For Research Use Only

# GDF8/Myostatin Polyclonal antibody

Catalog Number: 19142-1-AP

Featured Product

37 Publications



## Basic Information

### Catalog Number:

19142-1-AP

### Concentration:

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:

WB, IHC, ELISA

### Cited Applications:

WB, IHC, IF

### Species Specificity:

human, mouse

### Cited Species:

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

**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:

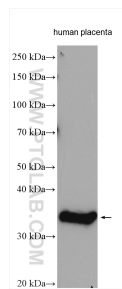
T: 4006900926

E: [Proteintech-CN@ptglab.com](mailto:Proteintech-CN@ptglab.com)

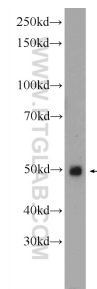
W: [ptgcn.com](http://ptgcn.com)

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

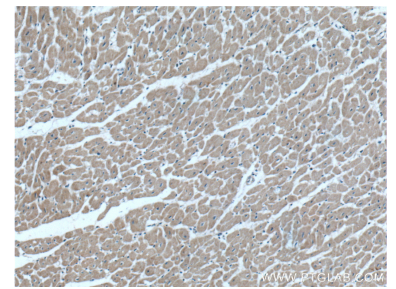
## Selected Validation Data



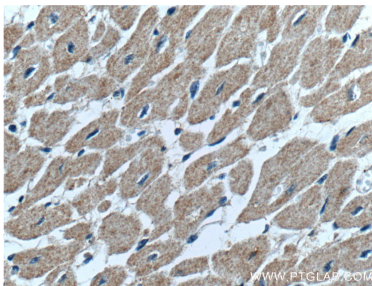
human placenta tissue were subjected to SDS PAGE followed by western blot with 19142-1-AP (GDF8/Myostatin antibody) at dilution of 1:1000 incubated at room temperature for 1.5 hours.



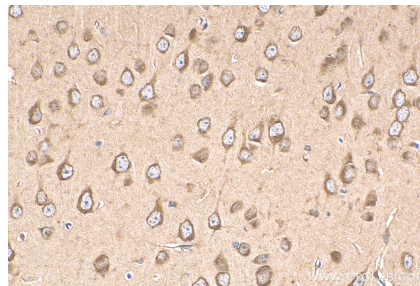
mouse heart tissue were subjected to SDS PAGE followed by western blot with 19142-1-AP (GDF8/Myostatin antibody at dilution of 1:600 incubated at room temperature for 1.5 hours.



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).