For Research Use Only

GDF8/Myostatin Polyclonal ANTIBODY

Catalog Number: 19142-1-AP  Featured Product  8 Publications

Basic Information

- Catalog Number: 19142-1-AP
- GenBank Accession Number: BC074757
- Source: Rabbit
- IgG
- Antigen affinity purification
- Immunogen Catalog Number: AG13605
- GenBank Accession Number: BC074757
- GeneID (NCBI): 2660
- Full Name: myostatin
- Calculated MW: 375aa, 43 kDa
- Observed MW: 50 kDa
- Recommended Dilutions:
  - WB: 1:500-1:2000
  - IHC: 1:50-1:500

Applications

- Tested Applications: IHC, WB, ELISA
- Cited Applications: IF, IHC, WB
- Species Specificity: human, mouse
cattle, human, mouse, pig, rat

- 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,

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 inhibition leads to increased skeletal muscle mass in mammals. Myostatin immunoreactive bands could be identified at ∼50, 30, and 16 kDa, which correspond to the precursor, dimer, and monomer, respectively (PMID: 17711997).

Notable Publications

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<th>Author</th>
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<tr>
<td>Dengqiu Xu</td>
<td>30362548</td>
<td>J Cell Physiol</td>
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<td>Peng Zhu</td>
<td>28355177</td>
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<td>Patrizia Carrarelli</td>
<td>2008422</td>
<td>Fertil Steril</td>
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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: 1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or (312) 455-8498 (outside USA)
E: proteintech@ptglab.com
W: ptglab.com

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

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).