



20180222BB

Anti-Mouse GDF-8 (#13F2)

**FOR RESEARCH ONLY! NOT FOR HUMAN USE!**

Cat.-no.:	103-M393
Size:	100 µg
Lot. No.:	According to product label

Preparation: This antibody was produced from a hybridoma (mouse myeloma fused with spleen cells from a rat) immunized with mouse recombinant protein of GDF-8.

Target Background

Synonyms (Target):	Mstn; Cmp; Gdf8
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Mouse Growth / differentiation factor 8, also known as GDF-8, Myostatin, MSTN and GDF8, is a secreted protein which belongs to the TGF-beta family. MSTN / GDF8 is a secreted TGF beta protein family member that inhibits muscle differentiation and growth. MSTN / GDF8 is produced primarily in skeletal muscle cells. It circulates in the blood and acts on muscle tissue, by binding a cell-bound receptor called the activin type II receptor. Animals lacking myostatin or animals treated with substances such as follistatin that block the binding of myostatin to its receptor have significantly larger muscles. MSTN / GDF8 is active in muscles used for movement (skeletal muscles) both before and after birth. MSTN / GDF8 normally restrains muscle growth, ensuring that muscles do not grow too large. Mutations that reduce the production of functional MSTN / GDF8 lead to an overgrowth of muscle tissue. MSTN-related muscle hypertrophy has a pattern of inheritance known as incomplete autosomal dominance.

Database References Target

Protein RefSeq:	NP_034964.1
Uniprot ID:	O08689
mRNA RefSeq:	NM_010834

Product Specifications

Host	Rat
Reactivity against	Mouse
Clonality	Monoclonal Antibody
Clone	(#13F2)
Isotype	IgG2
Purification	Protein G/A chromatography
Antigen	recombinant mouse protein GDF-8
Formulation	lyophilized
Reconstitution buffer	PBS (sterile)

Reconstitution: Reconstitute the antibody with 200 µl sterile PBS and the final concentration is 500 µg/ml.

Stability: Lyophilized samples are stable for 2 years from date of receipt when stored at -70°C. Reconstituted antibody can be aliquoted and stored frozen at < -20 °C for at least for six months without detectable loss of activity.

Remarks: This antibody detects specifically mouse GDF-8 with WB

**AVOID REPEATED FREEZE AND THAW CYCLES!**

Applications

The antibody can be used within the following applications:

WB, IHC

Recommended usage:

WB: 1:500-2000

IHC (Paraffin): 1:100-200

NOTE: OPTIMAL DILUTIONS SHOULD BE DETERMINED BY EACH LABORATORY FOR EACH APPLICATION!



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Handling/Applications

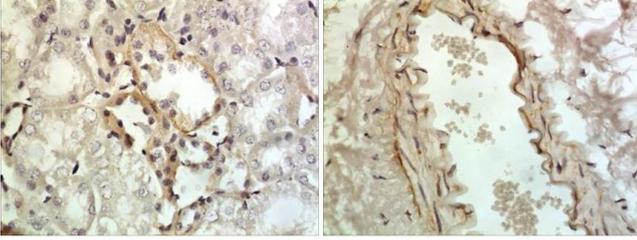


Fig. 1: The Kidney tissue samples from the Folic Acid-induced kidney injury model were fixed using 4% PFA at 4°C for overnight and embedded in paraffin. A 4 µm section was subjected to IHC (1:100-200).
Antigen retrieval: PK (10 µg/ml)