10320 Camino Santa Fe, Suite G
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Tel: 858.875.1900 Fax: 858.875.1999

MSTN Antibody
Purified Mouse Monoclonal Antibody
Catalog # AO1921a

Specification

MSTN Antibody - Product Information

Application	**E, WB, IHC**
Primary Accession	O14793
Reactivity	**Human**
Host	**Mouse**
Clonality	**Monoclonal**
Isotype	**IgG2b**
Calculated MW	**42.8kDa KDa**

Description
The protein encoded by this gene 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.

Immunogen
Purified recombinant fragment of human MSTN (AA:24-266) expressed in E. Coli.

Formulation
Purified antibody in PBS with 0.05% sodium azide.

MSTN Antibody - Additional Information

Gene ID 2660

Other Names
Growth/differentiation factor 8, GDF-8, Myostatin, MSTN, GDF8

Dilution
E~~1/10000
WB~~1/500 - 1/2000
IHC~~1/200 - 1/1000

Storage
Maintain refrigerated at 2-8°C for up to 6 months. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.

Precautions
MSTN Antibody is for research use only and not for use in diagnostic or therapeutic procedures.

MSTN Antibody - Protein Information

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Name MSTN

Synonyms GDF8

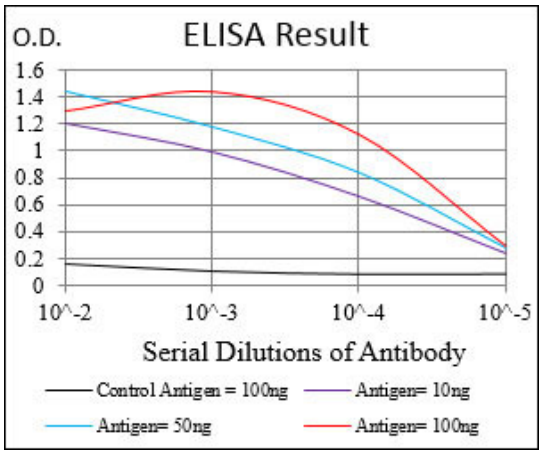
Function
Acts specifically as a negative regulator of skeletal muscle growth.

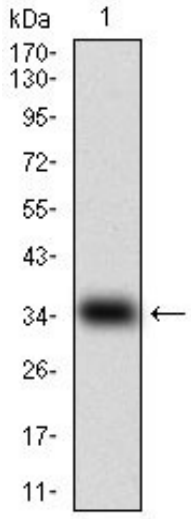
Cellular Location
Secreted {ECO:0000250|UniProtKB:O08689}.

MSTN Antibody - Protocols

Provided below are standard protocols that you may find useful for product applications.

- Western Blot
- Blocking Peptides
- Dot Blot
- Immunohistochemistry
- Immunofluorescence
- Immunoprecipitation
- Flow Cytomety
- Cell Culture





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Figure 1: Western blot analysis using MSTN mAb against human MSTN (AA:24-266) recombinant protein. (Expected MW is 28.9 kDa)

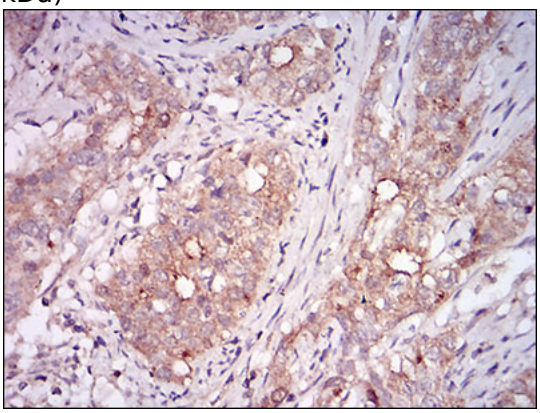


Figure 2: Immunohistochemical analysis of paraffin-embedded cervical cancer tissues using MSTN mouse mAb with DAB staining.

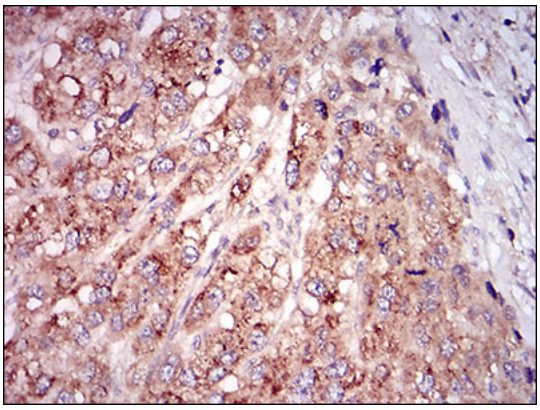


Figure 3: Immunohistochemical analysis of paraffin-embedded liver cancer tissues using MSTN mouse mAb with DAB staining.

MSTN Antibody - Background

The protein encoded by this gene belongs to the inhibitor of DNA binding family, members of which are transcriptional regulators that contain a helix-loop-helix (HLH) domain but not a basic domain. Members of the inhibitor of DNA binding family inhibit the functions of basic helix-loop-helix transcription factors in a dominant-negative manner by suppressing their heterodimerization partners through the HLH domains. This protein may play a role in negatively regulating cell differentiation. A pseudogene of this gene is located on chromosome 3. ; ; ;

MSTN Antibody - References

1. Eur J Endocrinol. 2012 Dec;167(6):873-80. 2. Biochem J. 2012 Aug 15;446(1):23-36.