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MSTN Antibody

Purified Mouse Monoclonal Antibody
Catalog # AO1921a

Product Information

Application	WB, IHC, E
Primary Accession	O14793
Reactivity	Human
Host	Mouse
Clonality	Monoclonal
Clone Names	6E4E6
Isotype	IgG2b
Calculated MW	42750
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.

Additional Information

Gene ID	2660
Other Names	Growth/differentiation factor 8, GDF-8, Myostatin, MSTN, GDF8
Dilution	WB~~1/500 - 1/2000 IHC~~1/200 - 1/1000 E~~1/10000
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.

Protein Information

Name	MSTN
Synonyms	GDF8

Function	Acts specifically as a negative regulator of skeletal muscle growth.
Cellular Location	Secreted {ECO:0000250|UniProtKB:O08689}.

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. ; ; ;

References

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

Images

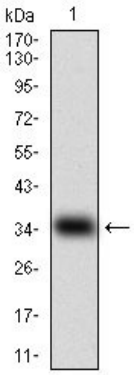

Figure 1: Western blot analysis using MSTN mAb against human MSTN (AA:24-266) recombinant protein. (Expected MW is 28.9 kDa)

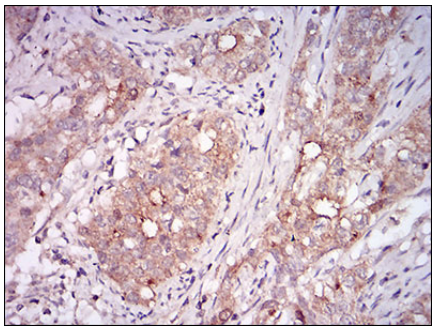

Figure 2: Immunohistochemical analysis of paraffin-embedded cervical cancer tissues using MSTN mouse mAb with DAB staining.

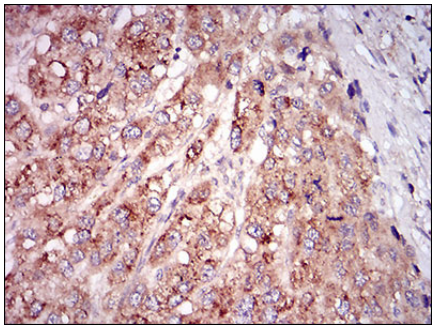

Figure 3: Immunohistochemical analysis of paraffin-embedded liver cancer tissues using MSTN mouse mAb with DAB staining.