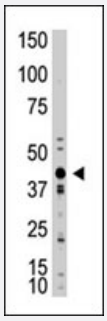
MSTN polyclonal antibody

Catalog # PAB3887 Size 200 uL

Applications



Western Blot (Tissue lysate)

Western blot analysis of MSTN polyclonal antibody (Cat # PAB3887) in mouse liver tissue lysate. MSTN (arrow) was detected using purified polyclonal antibody. Secondary HRP-anti-rabbit was used for signal visualization with chemiluminescence.

Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections)

Formalin-fixed and paraffin-embedded human skeletal muscle tissue reacted with MSTN polyclonal antibody (Cat # PAB3887) , which was peroxidase-conjugated to the secondary antibody, followed by DAB staining. This data demonstrates the use of this antibody for immunohistochemistry; clinical relevance has not been evaluated.

Specification

Product Description	Rabbit polyclonal antibody raised against synthetic peptide of MSTN.
Immunogen	A synthetic peptide (conjugated with KLH) corresponding to amino acids 17-46 at N-terminus of hum an MSTN.
Host	Rabbit
Reactivity	Human
Form	Liquid
Purification	Protein G purification

Recommend Usage	Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) (1:50) Western Blot (1:2000) The optimal working dilution should be determined by the end user.
Storage Buffer	In PBS (0.09% sodium azide)
Storage Instruction	Store at 4°C. For long term storage store at -20°C. Aliquot to avoid repeated freezing and thawing.
Note	This product contains sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which shoul d be handled by trained staff only.

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Gene Info — MSTN

Entrez GeneID	2660
Protein Accession#	O14793
Gene Name	MSTN
Gene Alias	GDF8
Gene Description	myostatin
Omim ID	601788
Gene Ontology	Hyperlink
Gene Summary	The protein encoded by this gene is a member of the bone morphogenetic protein (BMP) family a nd the TGF-beta superfamily. This group of proteins is characterized by a polybasic proteolytic pr ocessing site which is cleaved to produce a mature protein containing seven conserved cysteine r esidues. The members of this family are regulators of cell growth and differentiation in both embry onic and adult tissues. This gene is thought to encode a secreted protein which negatively regulat es skeletal muscle growth. [provided by RefSeq

Other Designations	growth differentiation factor 8

Publication Reference

- Analysis of meat color, meat tenderness and fatty acid composition of meat in second filial hybrid offspring of MSTN mutant pigs.

  Kai Gao, Zhaobo Luo, Shengzhong Han, Zhouyan Li, Hak Myong Choe, Hyo Jin Paek, Biaohu Quan, Jindan Kang, Xijun Yin.

  Meat Science 2022 Nov; 193:108929.

  Application: WB-Ce, Pig, Pig longissimus thoracis muscle

- The myostatin propeptide and the follistatin-related gene are inhibitory binding proteins of myostatin in normal serum.

  Hill JJ, Davies MV, Pearson AA, Wang JH, Hewick RM, Wolfman NM, Qiu Y.

  The Journal of Biological Chemistry 2002 Oct; 27(43):40735.

  Application: IP, WB-Ce, Mouse, Serum

- Insulin-like growth factor-1 and myostatin mRNA expression in muscle: comparison between 62-77 and 21-31 yr old men.

  Welle S, Bhatt K, Shah B, Thornton C.

  Experimental Gerontology 2002 Jun; 37(6):833.

- Bone mineral content and density in the humerus of adult myostatin-deficient mice.

  Hamrick MW, McPherron AC, Lovejoy CO.

  Calcified Tissue International 2002 Jun; 71(1):63.

Disease

- Genetic Predisposition to Disease
- Muscle Weakness
- Muscular Atrophy
- Obesity
- Ovarian Failure
- Polycystic Ovary Syndrome

- Puberty
- Thrombophilia
- Tobacco Use Disorder