

Datasheet for ABIN674469

anti-MSTN antibody (AA 281-375)

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Overview

Quantity:	100 µL
Target:	MSTN
Binding Specificity:	AA 281-375
Reactivity:	Human, Mouse, Rat, Pig
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This MSTN antibody is un-conjugated
Application:	Western Blotting (WB), ELISA, Immunofluorescence (Cultured Cells) (IF (cc)), Immunofluorescence (Paraffin-embedded Sections) (IF (p)), Immunohistochemistry (Paraffin-embedded Sections) (IHC (p)), Immunohistochemistry (Frozen Sections) (IHC (fro))

Product Details

Immunogen:	KLH conjugated synthetic peptide derived from human GDF8
Isotype:	IgG
Cross-Reactivity:	Human, Mouse, Pig, Rat
Predicted Reactivity:	Cow, Sheep, Horse, Chicken
Purification:	Purified by Protein A.

Target Details

Target:	MSTN
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Target Details

Alternative Name:	GDF8/MSTN (MSTN Products)
Background:	<p>Synonyms: GDF8, MSLHP, Growth/differentiation factor 8, GDF-8, Myostatin, MSTN</p> <p>Background: 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. Acts specifically as a negative regulator of skeletal muscle growth. [SUBUNIT] Homodimer, [TISSUE SPECIFICITY] Expressed specifically in developing and adult skeletal muscle. Weak expression in adipose tissue. Belongs to the TGF-beta family.</p>
Gene ID:	2660
UniProt:	O14793

Application Details

Application Notes:	<p>WB 1:300-5000</p> <p>ELISA 1:500-1000</p> <p>IHC-P 1:200-400</p> <p>IHC-F 1:100-500</p> <p>IF(IHC-P) 1:50-200</p> <p>IF(IHC-F) 1:50-200</p> <p>IF(ICC) 1:50-200</p>
Restrictions:	For Research Use only

Handling

Format:	Liquid
Concentration:	1 µg/µL
Buffer:	0.01M TBS(pH 7.4) with 1 % BSA, 0.02 % Proclin300 and 50 % Glycerol.
Preservative:	ProClin
Precaution of Use:	This product contains ProClin: a POISONOUS AND HAZARDOUS SUBSTANCE, which should be handled by trained staff only.
Storage:	4 °C,-20 °C

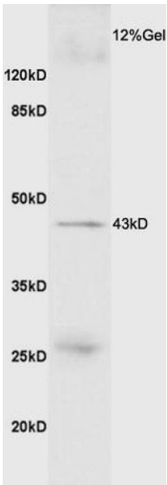
Handling

Storage Comment:	Shipped at 4°C. Store at -20°C for one year. Avoid repeated freeze/thaw cycles.
Expiry Date:	12 months

Publications

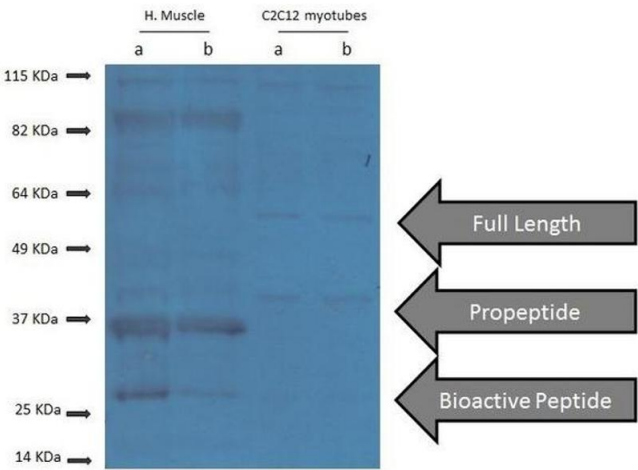
Product cited in:	Qian, Tang, Yang, Wang, Cai, Jiang, Li, Jiang, Gao, Ma, Chen, An, Li, Cui: "Targeted mutations in myostatin by zinc-finger nucleases result in double-musced phenotype in Meishan pigs." in: Scientific reports , Vol. 5, pp. 14435, (2016) (PubMed).
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Images



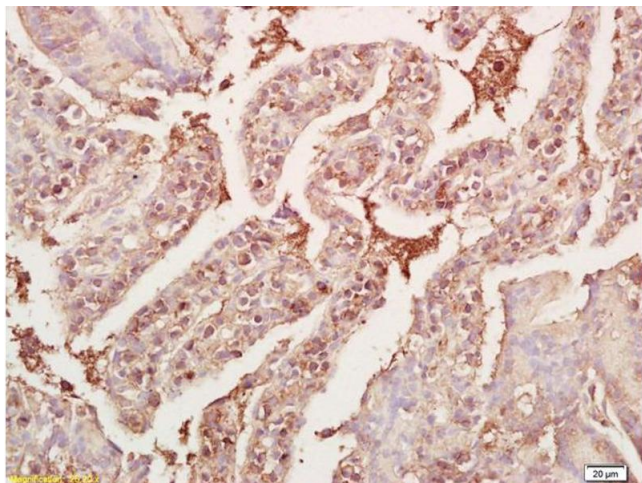
SDS-PAGE

Image 1. Mouse skeletal muscle lysate probed with Anti GDF8/MSTN Polyclonal Antibody, Unconjugated (ABIN674469) at 1:200 overnight at 4 °C. Followed by conjugation to secondary antibody at 1:3000 for 90 min at 37 °C. Predicted band 43kD. Observed band size: 43kD



SDS-PAGE

Image 2. Generously provided by Bradley Elliott from University of Westminster as part of the Bioss Discovery Program. Lanes 1 and 2 are human muscle lysates and Lanes 3 and 4 are C2C12 cells. Rabbit Anti-GDF8/MSTN Polyclonal Antibody (ABIN674469) was used at a dilution of 1:1000, overnight at 4C.



Immunohistochemistry

Image 3. Formalin-fixed and paraffin embedded mouse small intestine labeled Anti-GDF8/MSTN Polyclonal Antibody, Unconjugated (ABIN674469) at 1:200, followed by conjugation to the secondary antibody and DAB staining

Please check the [product details page](#) for more images. Overall 4 images are available for ABIN674469.