

Datasheet for ABIN7602824
anti-MSTN antibody (C-Term)



[Go to Product page](#)

Overview

Quantity:	100 µg
Target:	MSTN
Binding Specificity:	C-Term
Reactivity:	Human, Mouse, Rat
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This MSTN antibody is un-conjugated
Application:	Western Blotting (WB), Immunohistochemistry (IHC)

Product Details

Purpose:	Anti-GDF8/Myostatin/MSTN Antibody Picoband®
Immunogen:	A synthetic peptide corresponding to a sequence at the C-terminus of human GDF8/Myostatin/MSTN, identical to the related mouse and rat sequences.
Isotype:	IgG
Cross-Reactivity (Details):	No cross-reactivity with other proteins.
Characteristics:	Anti-GDF8/Myostatin/MSTN Antibody Picoband® (ABIN7602824). Tested in IHC, WB applications. This antibody reacts with Human, Mouse, Rat. The brand Picoband indicates this is a premium antibody that guarantees superior quality, high affinity, and strong signals with minimal background in Western blot applications. Only our best-performing antibodies are designated as Picoband, ensuring unmatched performance.
Purification:	Immunogen affinity purified.

Target Details

Target:	MSTN
Alternative Name:	MSTN (MSTN Products)
Background:	Synonyms: Insulin-like growth factor-binding protein 1, IBP-1, IGF-binding protein 1, IGFBP-1, Igfbp1, Igfbp-1, Tissue Specificity: High expression in adult thyroid, lower expression in adult and fetal kidney and fetal brain. Not expressed in other tissues. Background: Myostatin (also known as growth differentiation factor 8, abbreviated GDF-8) is a myokine, a protein produced and released by myocytes that acts on muscle cells' autocrine function to inhibit myogenesis: muscle cell growth and differentiation. In humans it is encoded by the MSTN gene. This gene encodes a secreted ligand of the TGF-beta (transforming growth factor-beta) superfamily of proteins. Ligands of this family bind various TGF-beta receptors leading to recruitment and activation of SMAD family transcription factors that regulate gene expression. The encoded preproprotein is proteolytically processed to generate each subunit of the disulfide-linked homodimer. This protein negatively regulates skeletal muscle cell proliferation and differentiation. Mutations in this gene are associated with increased skeletal muscle mass in humans and other mammals.
Molecular Weight:	50 kDa
Gene ID:	2660
UniProt:	014793

Application Details

Application Notes:	Western blot, 0.25-0.5 µg/mL, Human, Mouse, Rat Immunohistochemistry (Paraffin-embedded Section), 2-5 µg/mL, Human 1. Bogdanovich, S., Krag, T. O. B., Barton, E. R., Morris, L. D., Whittemore, L.-A., Ahima, R. S., Khurana, T. S. Functional improvement of dystrophic muscle by myostatin blockade. Nature 420: 418-421, 2002. 2. Charlier, C., Coppieters, W., Farnir, F., Grobet, L., Leroy, P. L., Michaux, C., Mni, M., Schwers, A., Vanmanshoven, P., Hanset, R., Georges, M. The mh gene causing double-muscling in cattle maps to bovine chromosome 2. Mammalian Genome 6: 788-792, 1995. 3. Clop, A., Marcq, F., Takeda, H., Pirottin, D., Tordoir, X., Bibe, B., Bouix, J., Caiment, F., Elsen, J.-M., Eychenne, F., Larzul, C., Laville, E., Meish, F., Milenkovic, D., Tobin, J., Charlier, C., Georges, M. A mutation creating a potential illegitimate microRNA target site in the myostatin gene affects muscularity in sheep. Nature Genet. 38: 813-818, 2006.
Restrictions:	For Research Use only

Handling

Format:	Lyophilized
Reconstitution:	Add 0.2 mL of distilled water will yield a concentration of 500 µg/mL.
Concentration:	500 µg/mL
Buffer:	Each vial contains 4 mg Trehalose, 0.9 mg NaCl, 0.2 mg Na ₂ HPO ₄ , 0.01 mg Sodium azide.
Preservative:	Sodium azide
Precaution of Use:	This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.
Storage:	4 °C, -20 °C
Storage Comment:	Store at -20°C for one year from date of receipt. After reconstitution, at 4°C for one month. It can also be aliquotted and stored frozen at -20°C for six months. Avoid repeated freeze-thaw cycles.