Product datasheet for AM02125PU-N

Myostatin Propeptide (MSTN) Mouse Monoclonal Antibody [Clone ID: 7F]

Product data:

Product Type:	Primary Antibodies
Clone Name:	7F
Applications:	ELISA
Recommended Dilution:	**ELISA.**
Reactivity:	Human
Host:	Mouse
Isotype:	IgG2b
Clonality:	Monoclonal
Immunogen:	Recombinant Myostatin full-length precursor (aa 1-352)
Specificity:	This antibody detects Myostatin prodomain.
Formulation:	50 mM TRIS, pH 7.4 State: Purified State: Lyophilized purified IgG fraction
Reconstitution Method:	Restore in aqua bidest to 1 mg/ml
Purification:	Protein G Chromatography
Conjugation:	Unconjugated
Storage:	Store lyophilized at 2-8°C and reconstituted at -20°C. Avoid repeated freezing and thawing.
Stability:	Shelf life: One year from despatch.
Gene Name:	myostatin
Database Link:	Entrez Gene 2660 Human O14793

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Background: Myostatin (GDF8) is expressed uniquely in human skeletal muscle as a 12 kDa mature glycoprotein consisting of 113 amino acid residues and secreted into plasma. Myostatin is a member of the transforming growth factor ß superfamily of secreted growth and differentiation factors that is essential for proper regulation of skeletal muscle mass. Studies have shown that myostatin could play an important role in cardiac development and physiology.

In serum, myostatin circulates as part of a latent complex containing myostatin propeptide and/or follistatin-related gene. The myostatin propeptide is known to bind and inhibit myostatin in vitro. This interaction is relevant in vivo, with a majority (>70%) of myostatin in serum bound to its propeptide. The myostatin propeptide is negative regulator of myostatin in vivo.

Synonyms: MSTN, GDF8, GDF-8, Growth differentiation factor 8