

Anti-Atrogin-1 Antibody
Catalog # AN1648**Specification**

Anti-Atrogin-1 Antibody - Product Information

Primary Accession	O9CPU7
Reactivity	Bovine
Host	Rat
Clonality	Rat Monoclonal
Isotype	N.T.
Calculated MW	41504

Anti-Atrogin-1 Antibody - Additional Information

Gene ID	67731
Other Names	
MAFbx, FBX32, Atrogin	

Target/Specificity

Atrogin-1/Muscle Atrophy F-box (MAFbx) is an E3 ubiquitin ligase that mediates proteolysis events that occur during muscle atrophy. This ATP-dependent ubiquitin-mediated proteolysis occurs in response to a variety of catabolic states in muscle. Atrogin is expressed in heart and skeletal muscle, and is upregulated during muscle atrophy. In addition, Atrogin expression increases in C2C12 myotubes after stimulation with cytokines. Atrogin is thought to recognize and bind to some phosphorylated proteins and promote their ubiquitination and degradation during skeletal muscle atrophy. Atrogin interacts with MyoD by ubiquitination via a sequence found in transcriptional coactivators and therefore may play an important role in the course of muscle differentiation by determining the abundance of MyoD. Mice deficient in Atrogin are resistant to muscle atrophy.

Format

Antigen Affinity Purified

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

Anti-Atrogin-1 Antibody is for research use only and not for use in diagnostic or therapeutic procedures.

Shipping

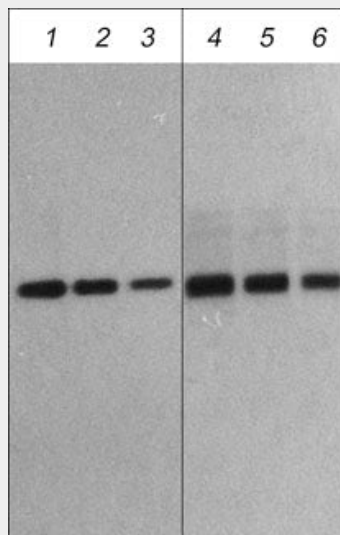
Blue Ice

Anti-Atrogin-1 Antibody - Protocols

Provided below are standard protocols that you may find useful for product applications.

- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

Anti-Atrogin-1 Antibody - Images



Western blot image of human recombinant Atrogin 1 (lanes 1-6). The blot was probed with rabbit polyclonal Atrogin-1 (lanes 1-3) and rat monoclonal Atrogin-1 (lanes 4-6) at 1:1000 (lanes 1 & 4), 1:2000 (lanes 2 & 5), and 1:4000 (lanes 3 & 6).

Anti-Atrogin-1 Antibody - Background

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