

# Anti-Atrogin-1 Antibody

Catalog # AN1649

## Product Information

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| <b>Application</b>       | WB, IHC                |
| <b>Primary Accession</b> | <a href="#">Q9CPU7</a> |
| <b>Host</b>              | Rabbit                 |
| <b>Clonality</b>         | Rabbit Polyclonal      |
| <b>Isotype</b>           | IgG                    |
| <b>Calculated MW</b>     | 41504                  |

## Additional Information

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| <b>Gene ID</b>     | 67731                 |
| <b>Other Names</b> | MAFbx, FBX32, Atrogin |

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| <b>Target/Specificity</b> | 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. |
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| <b>Dilution</b> | WB~~1:1000 IHC~~1:100~500 |
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| <b>Format</b> | Antigen Affinity Purified |
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| <b>Storage</b> | 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. |
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| <b>Precautions</b> | Anti-Atrogin-1 Antibody is for research use only and not for use in diagnostic or therapeutic procedures. |
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| <b>Shipping</b> | Blue Ice |
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## Background

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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.

Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.