

Rabbit Atrogin-1 Polyclonal Antibody | anti-Fbxo32 antibody

Atrogin-1 Antibody

CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA71564	Rabbit	Human, Rat, Mouse	Immunohistochemistry, Western Blot

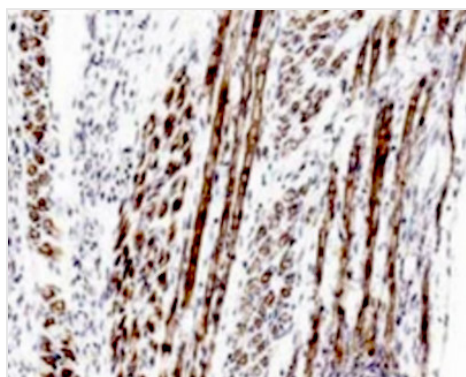
PRODUCT SYNONYMS

Atrogin-1; Polyclonal Antibody; Atrogin-1 Antibody; Atrogin pAb; anti-Fbxo32 antibody

PRODUCT SPECIFICATIONS

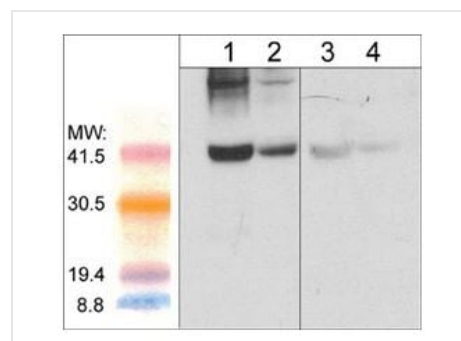
Host	Rabbit
Reactivity	Human, Rat, Mouse
Clonality	Polyclonal
Specificity	This antibody detects a 41kDa* protein corresponding to the apparent molecular mass of Atrogin on SDS-PAGE immunoblots of mouse muscle tissue lysates. Similar results were seen in C2C12 cell lysate and the band observed in western blot is specifically blocked by Atrogin-1 peptide (AX2045).
Form/Format	PBS + 1 mg/ml BSA, 0.05% NaN ₃ and 50% glycerol
Applicable Applications for anti-Fbxo32 antibody	IHC (Immunohistochemistry), WB (Western Blot)
Immunogen	A synthetic peptide (coupled to carrier protein) corresponding to amino acids 23 to 35 in mouse Atrogin. This sequence is highly homologous to human and rat Atrogin (F-box only protein 32).
Preparation and Storage	Storage at -20°C is recommended, as aliquots may be taken without freeze/thawing due to presence of 50% glycerol. Stable for at least 1 year at -20°C.

IMAGES



IHC (Immunohistochemistry)

Formalin fixed, citric acid treated paraffin sections of E16 mouse skeletal muscle. Sections were probed with anti-Atrogin-1 (AAA71564) then anti-Rabbit:HRP before detection using DAB. (Images provided by Carl Hobbs and Dr. Pat Doherty at Wolfson Centre for Age-Related Diseases, King's College London).



WB (Western Blot)

Western blot image of mouse gastrocnemius (lanes 1 & 3) and mouse diaphragm tissue lysate (lanes 2 & 4). The blot was probed with anti-Atrogin-1 (AAA71564; lanes 1-4) in the presence (lanes 3 & 4) or absence (lanes 1 & 2) of Atrogin-1 peptide (AX2045).

ADDITIONAL INFORMATION

Related Product Information for anti-Fbxo32 antibody	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.
References	Bodine, S.C. et al. (2001) Science 294: 1704-8. Dai, K.S. & Liews, C.C. (2001) J Biol. Chem. 276(26):23992. Leger, B. et al. (2006) J Physiol. 576(3):923.

NCBI AND UNIPROT INFORMATION

NCBI GI #	13385848
NCBI GeneID	67731
NCBI Accession #	NP_080622.1
NCBI GenBank Nucleotide #	NM_026346.3
UniProt Accession #	Q9CPU7
Molecular Weight	41 kDa
NCBI Official Full Name	F-box only protein 32
NCBI Official Synonym Full Names	F-box protein 32
NCBI Official Symbol	Fbxo32
NCBI Official Synonym Symbols	MAFbx; Gm20361; AI430017; ATROGIN1; 4833442G10Rik
NCBI Protein Information	F-box only protein 32
UniProt Protein Name	F-box only protein 32
UniProt Gene Name	Fbxo32
UniProt Synonym Gene Names	MAFbx
UniProt Entry Name	FBX32_MOUSE

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

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Online datasheet: <https://stage.aaabiotech.com/polyclonal/atrogin-1-antibody-immunohistochemistry-western-blot-elisa/71564>