Data Sheet (Cat.No.TMAB-00661)

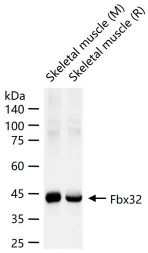
Anti-Fbx32 Antibody (4A434)

Product Details

Ig Type:	IgG
Reactivity:	Mouse,Rat (predicted:Human)
Molecular Weight:	Theoretical: 42 kDa. Actual: 42 kDa.
Clone:	4A434
Purification:	Protein A purified

Applications

Verified Activity: 25 μg total protein per Lane of various lysates probed with Fbx32 monoclonal antibody, unconjugated (TMAB-00661) at 1:10000 dilution and 4°C overnight incubation. Followed by conjugated secondary antibody incubation at RT for 60 min.



Application:	ICC/IF,WB
Recommended	ICC/IF=1:50-200; WB=1:1000-2000

Properties

Stability & Storage:	Store at -20°C or -80°C for 12 months. Avoid repeated freeze-thaw cycles.
Shipping:	Shipping with blue ice.

Antigen Details

Immunogen:	A synthesized peptide: human FBXO32
Antigen Species:	Human
Gene ID:	114907
Uniprot ID:	Q969P5
Synonyms:	Muscle atrophy F box protein;AI430017;Fbx32;4833442G10Rik;ATROGIN1;Atrogin 1;MAFbx;F-box only protein 32;Atrogin-1;Muscle atrophy F box;MGC108443;F-box protein 32;Atrophy gene 1;fbxo25;MGC33610;F box only protein 32;FLJ32424;FBXO32;MGC137646
Biology Area:	Hypertrophy,F Box E3 Ligase,SCF Complex E3 Ligase,Myogenesis

Research Background

Fbx32 is an E3 ubiquitin ligase that initiates ATP dependent ubiquitin-mediated proteolysis and promotes muscle atrophy. It is highly expressed during muscle atrophy, whereas mice deficient in this gene were found to be resistant to atrophy. It is also thought to recognize and bind to some phosphorylated proteins and promote their

ubiquitination and degradation during skeletal muscle atrophy. Fbx32 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.

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