

## FBXO32 Monoclonal antibody

Catalog Number: 67172-1-Ig 41 Publications

## Basic Information

<b>Catalog Number:</b> 67172-1-Ig	<b>GenBank Accession Number:</b> BC024030	<b>Purification Method:</b> Protein A purification
<b>Size:</b> 150ul , Concentration: 1500 ug/ml by Nanodrop;	<b>GeneID (NCBI):</b> 114907	<b>CloneNo.:</b> 3C2G3
<b>Source:</b> Mouse	<b>UNIPROT ID:</b> Q969P5	<b>Recommended Dilutions:</b> WB 1:10000-1:50000 IHC 1:2000-1:8000 IF-P 1:50-1:500
<b>Isotype:</b> IgG2b	<b>Full Name:</b> F-box protein 32	
<b>Immunogen Catalog Number:</b> AG25247	<b>Calculated MW:</b> 355 aa, 42 kDa	
	<b>Observed MW:</b> 42 kDa	

## Applications

<b>Tested Applications:</b> WB, IHC, IF-P, ELISA	<b>Positive Controls:</b>
<b>Cited Applications:</b> WB, IHC, IF, IP	<b>WB :</b> mouse skeletal muscle tissue, human heart tissue, pig heart tissue, pig skeletal muscle tissue, Rabbit skeletal muscle tissue
<b>Species Specificity:</b> Human, Pig, Rat, mouse	<b>IHC :</b> mouse skeletal muscle tissue, rat skeletal muscle tissue
<b>Cited Species:</b> human, mouse, rat, pig, canine	<b>IF-P :</b> mouse skeletal muscle tissue,
<b>Note-IHC: suggested antigen retrieval with TE buffer pH 9.0; (*) Alternatively, antigen retrieval may be performed with citrate buffer pH 6.0</b>	

## Background Information

FBXO32 (F box only protein 32), also known as Atrogin 1 or MAFbx, is a member of the F-box protein family which is characterized by an approximately 40 amino acid motif F-box. This protein is an E3 ubiquitin ligase that is markedly up-regulated in muscle atrophy. FBXO32 is thus a potential drug target for the treatment of muscle atrophy. Some data support that FBXO32 may play an important role in tumorigenesis. Recent study reveal that FBXO32 targets the oncogenic protein c-Myc for ubiquitination and degradation through the proteasome pathway.

## Notable Publications

Author	Pubmed ID	Journal	Application
Lea Hildebrandt	36143454	Life (Basel)	IHC
Yoichiro Kamada	34687403	J Muscle Res Cell Motil	WB
Jie Xu	36233342	Int J Mol Sci	WB,IHC,IP

## Storage

**Storage:**  
Store at -20°C. Stable for one year after shipment.

**Storage Buffer:**  
PBS with 0.02% sodium azide and 50% glycerol, pH7.3

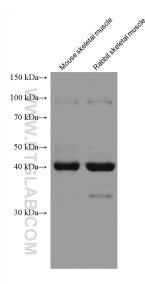
Aliquoting is unnecessary for -20°C storage

\*\*\* 20ul sizes contain 0.1% BSA

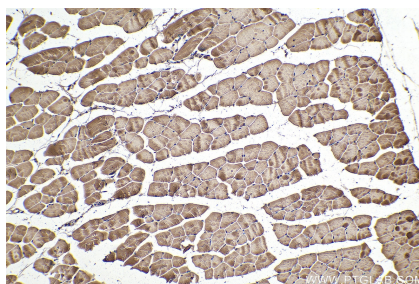
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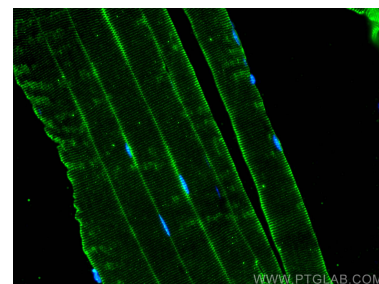
## Selected Validation Data



Various lysates were subjected to SDS PAGE followed by western blot with 67172-1-Ig (FBXO32 antibody) at dilution of 1:15000 incubated at room temperature for 1.5 hours.



Immunohistochemical analysis of paraffin-embedded mouse skeletal muscle tissue slide using 67172-1-Ig (FBXO32 antibody) at dilution of 1:4000 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunofluorescent analysis of (4% PFA) fixed mouse skeletal muscle tissue using FBXO32 antibody (67172-1-Ig, Clone: 3C2G3 ) at dilution of 1:200 and CoraLite®488-Conjugated Goat Anti-Mouse IgG(H+L).