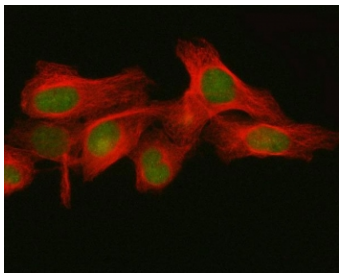
FBXO32 Antibody / F-box only protein 32 / Atrogin 1 (RQ8589)

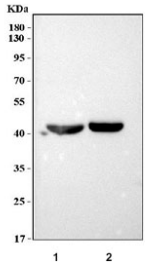
Catalog No.	Formulation	Size
RQ8589	0.5mg/ml if reconstituted with 0.2ml sterile DI water	100 ug

Bulk quote request

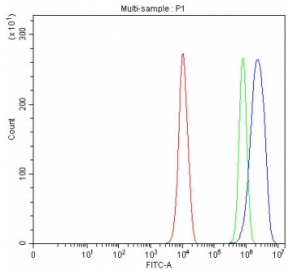
Availability	1-3 days
Species Reactivity	Human, Mouse
Format	Antigen affinity purified
Host	Rabbit
Clonality	Polyclonal (rabbit origin)
Isotype	Rabbit IgG
Purity	Antigen affinity purified
Buffer	Lyophilized from 1X PBS with 2% Trehalose
UniProt	Q969P5
Localization	Cytoplasm, Nucleus
Applications	Western blot: 0.5-1ug/ml Immunofluorescence: 5ug/ml Flow cytometry: 1-3ug/million cells ELISA: 0.1-0.5ug/ml
Limitations	This FBXO32 antibody is available for research use only.



Immunofluorescent staining of FFPE human HeLa cells with FBXO32 antibody (green) and Beta Tubulin mAb (red). HIER: steam section in pH6 citrate buffer for 20 min.



Western blot testing of 1) mouse heart and 2) mouse skeletal muscle tissue lysate with FBXO32 antibody. Predicted molecular weight ~42 kDa.



Flow cytometry testing of fixed and permeabilized human PC-3 cells with FBXO32 antibody at 1ug/million cells (blocked with goat sera); Red=cells alone, Green=isotype control, Blue= FBXO32 antibody.

Description

F-box only protein 32, also known as MAFbx, for Muscle Atrophy F-box gene, and Atrogin-1, is a protein that in humans is encoded by the FBXO32 gene. This gene encodes a member of the F-box protein family which is characterized by an approximately 40 amino acid motif, the F-box. The F-box proteins constitute one of the four subunits of the ubiquitin protein ligase complex called SCFs (SKP1-cullin-F-box), which function in phosphorylation-dependent ubiquitination. The F-box proteins are divided into 3 classes: Fbws containing WD-40 domains, Fbls containing leucine-rich repeats, and Fbxs containing either different protein-protein interaction modules or no recognizable motifs. The protein encoded by this gene belongs to the Fbxs class and contains an F-box domain. This protein is highly expressed during muscle atrophy, whereas mice deficient in this gene were found to be resistant to atrophy. This protein is thus a potential drug target for the treatment of muscle atrophy. Alternative splicing results in multiple transcript variants encoding different isoforms.

Application Notes

Optimal dilution of the FBXO32 antibody should be determined by the researcher.

Immunogen

An E.coli-derived human recombinant protein (amino acids Q6-F355) was used as the immunogen for the FBXO32 antibody.

Storage

After reconstitution, the FBXO32 antibody can be stored for up to one month at 4oC. For long-term, aliquot and store at -20oC. Avoid repeated freezing and thawing.

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