

## ARG40770 anti-TRIM63 / MuRF1 antibody

Package: 50 µl  
Store at: -20°C

### Summary

Product Description	Rabbit Polyclonal antibody recognizes TRIM63 / MuRF1
Tested Reactivity	Hu, Ms, Rat
Predict Reactivity	Pig
Tested Application	ICC/IF, WB
Specificity	This antibody detects 38 and 30 kDa proteins corresponding to the apparent molecular mass of MuRF1 isoforms on SDS-PAGE immunoblots of C2C12 cells, and detects a ~ 38 kDa band in mouse heart and muscle tissue.
Host	Rabbit
Clonality	Polyclonal
Isotype	IgG
Target Name	TRIM63 / MuRF1
Species	Human
Immunogen	KLH-conjugated synthetic peptide around the C-terminus of Human MuRF1.
Conjugation	Un-conjugated
Alternate Names	E3 ubiquitin-protein ligase TRIM63; Muscle-specific RING finger protein 1; EC 6.3.2.-; MURF2; MURF1; MuRF-1; Striated muscle RING zinc finger protein; SMRZ; RNF28; RING finger protein 28; Tripartite motif-containing protein 63; MuRF1; IRF; Iris RING finger protein

### Application Instructions

Application table	Application	Dilution
	ICC/IF	1:300
	WB	1:1000
Application Note	WB: Antibody is suggested to be diluted in 5% skimmed milk/Tris buffer with 0.04% Tween20 and incubated for 1 hour at room temperature. * The dilutions indicate recommended starting dilutions and the optimal dilutions or concentrations should be determined by the scientist.	
Observed Size	38 kDa	

### Properties

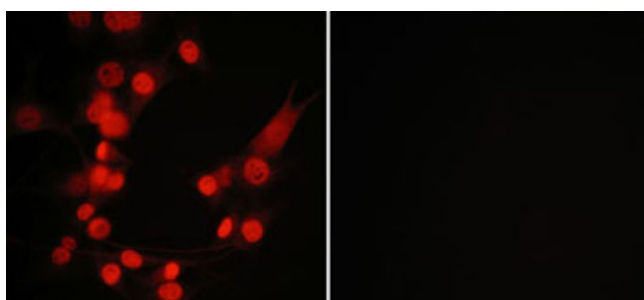
Form	Liquid
Purification	Affinity purification with immunogen.
Buffer	PBS, 0.05% Sodium azide, 50% Glycerol and 1 mg/ml BSA.
Preservative	0.05% Sodium azide

Stabilizer	50% Glycerol and 1 mg/ml BSA
Storage instruction	For continuous use, store undiluted antibody at 2-8°C for up to a week. For long-term storage, aliquot and store at -20°C. Storage in frost free freezers is not recommended. Avoid repeated freeze/thaw cycles. Suggest spin the vial prior to opening. The antibody solution should be gently mixed before use.
Note	For laboratory research only, not for drug, diagnostic or other use.

## Bioinformation

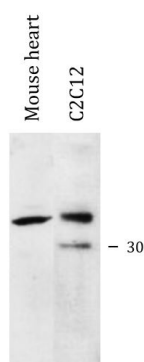
Gene Symbol	TRIM63
Gene Full Name	tripartite motif containing 63, E3 ubiquitin protein ligase
Background	This gene encodes a member of the RING zinc finger protein family found in striated muscle and iris. The product of this gene is an E3 ubiquitin ligase that localizes to the Z-line and M-line lattices of myofibrils. This protein plays an important role in the atrophy of skeletal and cardiac muscle and is required for the degradation of myosin heavy chain proteins, myosin light chain, myosin binding protein, and for muscle-type creatine kinase. [provided by RefSeq, Feb 2012]
Function	E3 ubiquitin ligase. Mediates the ubiquitination and subsequent proteasomal degradation of CKM, GMEB1 and HIBADH. Regulates the proteasomal degradation of muscle proteins under amino acid starvation, where muscle protein is catabolized to provide other organs with amino acids. Inhibits de novo skeletal muscle protein synthesis under amino acid starvation. Regulates proteasomal degradation of cardiac troponin I/TNNI3 and probably of other sarcomeric-associated proteins. May play a role in striated muscle atrophy and hypertrophy by regulating an anti-hypertrophic PKC-mediated signaling pathway. May regulate the organization of myofibrils through TTN in muscle cells. [UniProt]
Calculated Mw	40 kDa
Cellular Localization	Cytoplasm. Nucleus. Cytoplasm, myofibril, sarcomere, M line. Cytoplasm, myofibril, sarcomere, Z line. Note=Colocalizes with TNNI3 in myocytes (By similarity). Localizes to the M- and Z-lines in skeletal muscle. [UniProt]

## Images



ARG40770 anti-TRIM63 / MuRF1 antibody ICC/IF image

Immunofluorescence: C2C12 cells were stained with ARG40770 anti-TRIM63 / MuRF1 antibody (red), in the absence (left) or presence (right) of blocking peptide.



ARG40770 anti-TRIM63 / MuRF1 antibody WB image

Western blot: Mouse heart and C2C12 cell lysates stained with ARG40770 anti-TRIM63 / MuRF1 antibody.