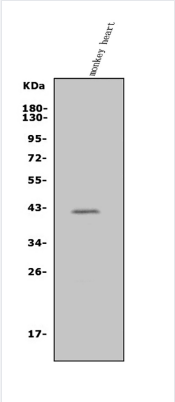
MURF1/TRIM63 (TRIM63) Antibody – Rabbit Polyclonal

PRODUCT OVERVIEW

Product Name	MURF1/TRIM63, Polyclonal Antibody
Full Product Name	Anti-MURF1/TRIM63 Antibody
Product Gene Name	anti-TRIM63 antibody
Product Synonym Names	TRIM63; IRF; MURF1; RNF28; SMRZ; E3 ubiquitin-protein ligase TRIM63; EC 2. 3. 2. 27; Iris RING finger protein; Muscle-specific RING finger protein 1; MuRF-1; MuRF1; RING finger protein 28; RING-type E3 ubiquitin transferase TRIM63; Striated muscle RING zinc finger protein; Tripartite motif-containing protein 63; tripartite motif containing 63
Clonality	Polyclonal
Isotype	Rabbit IgG
Host	Rabbit
Species Reactivity	Human, Monkey
Form/Format	Lyophilized. Each vial contains 4mg Trehalose, 0.9mg NaCl, 0.2mg Na2HPO4, 0.01mg NaN3.
Purity/Purification	Immunogen affinity purified.
Specificity	Rabbit IgG polyclonal antibody for MURF1/TRIM63 detection.
Preparation and Storage	Store at -20 degree C for one year. After reconstitution, at 4 degree C for one month. It can also be aliquotted and stored frozen at -20 degree C for a longer time. Avoid repeated freezing and thawing.
Molecular Weight	353
OMIM	606131
3D Structure	ModBase 3D Structure for Q969Q1
Immunogen	E Coli-derived human MURF1/TRIM63 recombinant protein (Position: D2-E329).
Reconstitution	Add 0.2ml of distilled water will yield a concentration of 500ug/ml.
Recommended Detection Systems	Recommended Detection Systems||Lab recommends Enhanced Chemiluminescent Kit with anti-Rabbit IgG (MBS176460) for Western blot.
ISO Certification	Manufactured in an ISO 13485:2003 and EN ISO 13485:2012 Certified Laboratory.
Applications Tested/Suitable for anti-TRIM63 antibody	Western Blot (WB), Direct ELISA (EIA)
Application Notes for anti-TRIM63 antibody	WB: 0.25-0.5ug/ml|Monkey| Direct ELISA: 0.1-0.5ug/ml|Human|
Related Product Information for anti-TRIM63 antibody	E3 ubiquitin-protein ligase TRIM63 is an enzyme that in humans is encoded by the TRIM63 gene. 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.

Product References and Citations for anti-TRIM63 antibody	1. Bodine, S. C., Latres, E., Baumhueter, S., Lai, V. K. -M., Nunez, L., Clarke, B. A., Poueymirou, W. T., Panaro, F. J., Na, E., Dharmarajan, K., Pan, Z. -Q., Valenzuela, D. M., DeChiara, T. M., Stitt, T. N., Yancopoulos, G. D., Glass, D. J. Identification of ubiquitin ligases required for skeletal muscle atrophy. Science 294: 1704-1708, 2001. 2. Cai, D., Frantz, J. D., Tawa, N. E., Jr., Melendez, P. A., Oh, B. -C., Lidov, H. G. W., Hasselgren, P. -O., Frontera, W. R., Lee, J., Glass, D. J., Shoelson, S. E. IKK-beta/NF-kappa-B activation causes severe muscle wasting in mice. Cell 119: 285-298, 2004. 3. Centner, T., Yano, J., Kimura, E., McElhinny, A. S., Pelin, K., Witt, C. C., Bang, M. -L., Trombitas, K., Granzier, H., Gregorio, C. C., Sorimachi, H., Labeit, S. Identification of muscle specific ring finger proteins as potential regulators of the titin kinase domain. J. Molec. Biol. 306: 717-726, 2001.
Other Notes	Small volumes of anti-TRIM63 antibody vial(s) may occasionally become entrapped in the seal of the product vial during shipment and storage. If necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the container`s cap. Certain products may require to ship with dry ice and additional dry ice fee may apply.
Searchable Terms for TRIM63 purchase	MBS1753484 is an antibody targeting TRIM63. Also known as Anti-MURF1/TRIM63 Antibody. Reactive in Human, Monkey. Host: Rabbit.



Western Blot (WB) of anti-TRIM63 antibody
Figure 1. Western blot analysis of MURF1/TRIM63 using anti-MURF1/TRIM63 antibody (MBS1753484).Electrophoresis was performed on a 5-20% SDS-PAGE gel at 70V (Stacking gel) / 90V (Resolving gel) for 2-3 hours. The sample well of each lane was loaded with 30ug of sample under reducing conditions.Lane 1: monkey heart tissue lysates.After Electrophoresis, proteins were transferred to a Nitrocellulose membrane at 150mA for 50-90 minutes. Blocked the membrane with 5% Non-fat Milk/ TBS for 1. 5 hour at RT. The membrane was incubated with rabbit anti-MURF1/TRIM63 antigen affinity purified polyclonal antibody (Catalog # MBS1753484) at 0. 5 ?g/mL overnight at 4 degree C, then washed with TBS-0. 1%Tween 3 times with 5 minutes each and probed with a goat anti-rabbit IgG-HRP secondary antibody at a dilution of 1:5000 for 1. 5 hour at RT. The signal is developed using an Enhanced Chemiluminescent detection (ECL) kit (Catalog # MBS176460) with Tanon 5200 system. A specific band was detected for MURF1/TRIM63 at approximately 40KD. The expected band size for MURF1/TRIM63 is at 40KD.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for TRIM63. It may not necessarily be applicable to this product.

NCBI GI #	21362898
NCBI GeneID	84676
NCBI Accession #	Q969Q1.1
UniProt Primary Accession #	Q969Q1
UniProt Secondary Accession #	Q5T2I1; Q96BD3; Q96KD9; Q9BYV4; B4DN95
UniProt Related Accession #	Q969Q1
NCBI Official Full Name	E3 ubiquitin-protein ligase TRIM63
NCBI Official Synonym Full Names	tripartite motif containing 63, E3 ubiquitin protein ligase
NCBI Official Symbol	TRIM63

NCBI Official Synonym Symbols	IRF; SMRZ; MURF1; MURF2; RNF28
UniProt Protein Name	E3 ubiquitin-protein ligase TRIM63
UniProt Synonym Protein Names	Iris RING finger protein; Muscle-specific RING finger protein 1; MuRF-1; MuRF1; RING finger protein 28; Striated muscle RING zinc finger protein; Tripartite motif-containing protein 63
Protein Family	E3 ubiquitin-protein ligase
UniProt Gene Name	TRIM63
UniProt Synonym Gene Names	IRF; MURF1; RNF28; SMRZ; MuRF-1; MuRF1
UniProt Entry Name	TRI63_HUMAN
NCBI Protein Information	E3 ubiquitin-protein ligase TRIM63; ring finger protein 28; iris ring finger protein; muscle specific ring finger protein 2; muscle-specific RING finger protein 1; tripartite motif-containing protein 63; striated muscle RING zinc finger protein
NCBI Summary for TRIM63	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]
UniProt Comments for TRIM63	MURF1: E3 ubiquitin ligase. 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. Protein type: EC 6.3.2.-; Ligase; EC 6.3.2.19; Ubiquitin ligase; Ubiquitin conjugating system Chromosomal Location of Human Ortholog: 1p34-p33 Cellular Component: microtubule; cytoplasm; M band; Z disc; nucleus Molecular Function: signal transducer activity; protein binding; zinc ion binding; ubiquitin-protein ligase activity; titin binding; ligase activity Biological Process: proteasomal ubiquitin-dependent protein catabolic process; skeletal muscle atrophy; muscle contraction; regulation of gene expression; protein ubiquitination; response to electrical stimulus involved in regulation of muscle adaptation; signal transduction
Research Articles on TRIM63	**1.** Data reveal that Titin protein is a pseudokinase with non-detectable catalytic output but is a high-affinity binding locus for MuRF1.
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