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TRIM63 Antibody (monoclonal) (M01)

Mouse monoclonal antibody raised against a partial recombinant TRIM63.
Catalog # AT4361a

Product Information

Application	WB, IF, E
Primary Accession	Q969Q1
Other Accession	NM_032588
Reactivity	Human
Host	Mouse
Clonality	monoclonal
Isotype	IgG1 Kappa
Clone Names	6G6
Calculated MW	40248

Additional Information

Gene ID	84676
Other Names	E3 ubiquitin-protein ligase TRIM63, 632-, 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, TRIM63, IRF, MURF1, RNF28, SMRZ
Target/Specificity	TRIM63 (NP_115977, 254 a.a. ~ 352 a.a) partial recombinant protein with GST tag. MW of the GST tag alone is 26 KDa.
Dilution	WB~~1:500~1000 IF~~1:50~200 E~~N/A
Format	Clear, colorless solution in phosphate buffered saline, pH 7.2 .
Storage	Store at -20°C or lower. Aliquot to avoid repeated freezing and thawing.
Precautions	TRIM63 Antibody (monoclonal) (M01) is for research use only and not for use in diagnostic or therapeutic procedures.

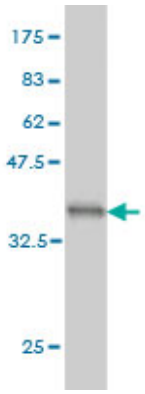
Background

This gene encodes a member of the RING zinc finger protein family found in striated muscle and iris. The product of this gene is localized to the Z-line and M-line lattices of myofibrils, where titin's N-terminal and C-terminal regions respectively bind to the sarcomere. In vitro binding studies have shown that this protein also binds directly to titin near the region of titin containing kinase activity. Another member of this protein family binds to microtubules. Since these family members can form heterodimers, this suggests that these proteins may serve as a link between titin kinase and microtubule-dependent signal pathways in muscle.

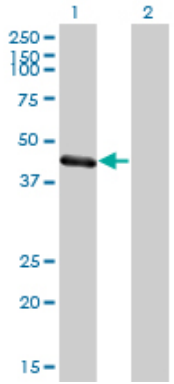
References

Depressed expression of MuRF1 and MAFbx in areas remote of recent myocardial infarction: a mechanism contributing to myocardial remodeling? Conraads VM, et al. Basic Res Cardiol, 2010 Mar. PMID 19859778.Atrogin-1 and MuRF1 regulate cardiac MyBP-C levels via different mechanisms. Mearini G, et al. Cardiovasc Res, 2010 Jan 15. PMID 19850579.Atrogin-1, MuRF1, and FoXO, as well as phosphorylated GSK-3beta and 4E-BP1 are reduced in skeletal muscle of chronic spinal cord-injured patients. L?ger B, et al. Muscle Nerve, 2009 Jul. PMID 19533653.Structural analysis of B-Box 2 from MuRF1: identification of a novel self-association pattern in a RING-like fold. Mrosek M, et al. Biochemistry, 2008 Oct 7. PMID 18795805.The glucocorticoid receptor and FOXO1 synergistically activate the skeletal muscle atrophy-associated MuRF1 gene. Waddell DS, et al. Am J Physiol Endocrinol Metab, 2008 Oct. PMID 18612045.

Images

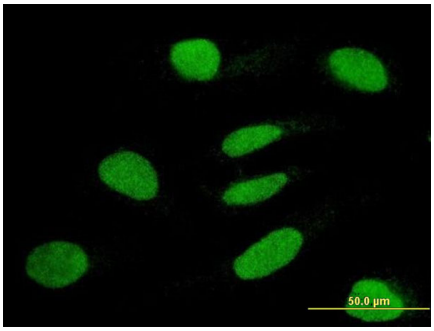


Antibody Reactive Against Recombinant Protein.Western Blot detection against Immunogen (36.63 KDa) .



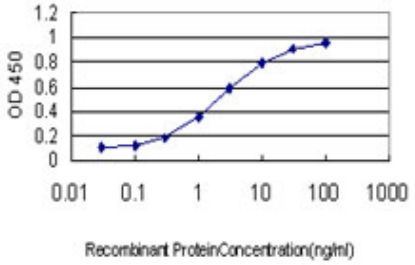
Western Blot analysis of TRIM63 expression in transfected 293T cell line by TRIM63 monoclonal antibody (M01), clone 6G6.

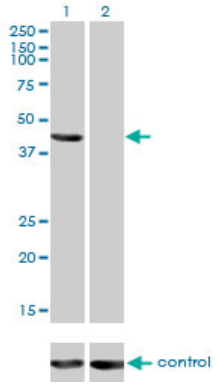
Lane 1: TRIM63 transfected lysate(40.2 KDa).
Lane 2: Non-transfected lysate.



Immunofluorescence of monoclonal antibody to TRIM63 on HeLa cell . [antibody concentration 10 ug/ml]

Detection limit for recombinant GST tagged TRIM63 is approximately 0.1ng/ml as a capture antibody.





Western blot analysis of TRIM63 over-expressed 293 cell line, cotransfected with TRIM63 Validated Chimera RNAi ((Cat # AT4361a)

Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.