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TRIM55 Antibody (Center)

Purified Rabbit Polyclonal Antibody (Pab)
Catalog # AP21736c

Product Information

Application	WB, E
Primary Accession	Q9BYV6
Reactivity	Human, Rat
Host	Rabbit
Clonality	polyclonal
Isotype	Rabbit IgG
Clone Names	RB53569
Calculated MW	60466

Additional Information

Gene ID	84675
Other Names	Tripartite motif-containing protein 55, Muscle-specific RING finger protein 2, MuRF-2, MuRF2, RING finger protein 29, TRIM55, MURF2, RNF29
Target/Specificity	This TRIM55 antibody is generated from a rabbit immunized with a KLH conjugated synthetic peptide between 216-250 amino acids from the Central region of human TRIM55.
Dilution	WB~~1:2000 E~~Use at an assay dependent concentration.
Format	Purified polyclonal antibody supplied in PBS with 0.09% (W/V) sodium azide. This antibody is purified through a protein A column, followed by peptide affinity purification.
Storage	Maintain refrigerated at 2-8°C for up to 2 weeks. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.
Precautions	TRIM55 Antibody (Center) is for research use only and not for use in diagnostic or therapeutic procedures.

Protein Information

Name	TRIM55
Synonyms	MURF2, RNF29
Function	E3 ubiquitin ligase that plays an important role in regulating cardiac development and contractility, muscle growth, metabolism, and fiber-type differentiation. Acts as a critical factor that regulates cardiomyocyte size

during development in concert with TRIM63 by regulating E2F1-mediated gene expression (By similarity). Plays a role in apoptosis induction in cardiomyocytes by promoting ubiquitination of the DUSP1 phosphatase. Promotes non-canonical NF- kappa-B signaling and B-cell-mediated immune responses by mediating NFKB2 'Lys-48'-linked ubiquitination and processing. In turn, NFKB2 is further processed by valosin-containing protein/VCP, an ATPase that mediates ubiquitin-dependent protein degradation by the proteasome. May play a role in preventing macrophages from producing inflammatory factors and migrating by downregulating the level of nuclear NF-kappa-B subunit RELA. Also modifies PPARG via polyubiquitination and accelerates PPARG proteasomal degradation to inhibit its activity (PubMed:36737649).

Cellular Location Nucleus {ECO:0000250|UniProtKB:G3X8Y1}. Cytoplasm {ECO:0000250|UniProtKB:G3X8Y1}. Note=TLR4 signaling pathway promotes nuclear translocation. {ECO:0000250|UniProtKB:G3X8Y1}

Tissue Location Highly expressed in muscle. Low-level expression in liver.

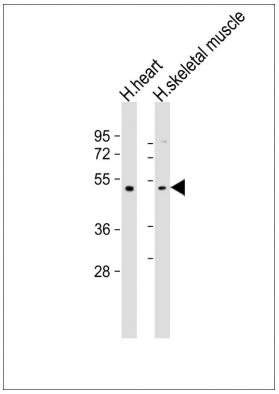
Background

May regulate gene expression and protein turnover in muscle cells.

References

Centner T.,et al.J. Mol. Biol. 306:717-726(2001).
Pizon V.,et al.J. Cell Sci. 115:4469-4482(2002).
Ota T.,et al.Nat. Genet. 36:40-45(2004).
Mural R.J.,et al.Submitted (JUL-2005) to the EMBL/GenBank/DDBJ databases.
Kalnine N.,et al.Submitted (MAY-2003) to the EMBL/GenBank/DDBJ databases.

Images



All lanes : Anti-TRIM55 Antibody (Center) at 1:2000 dilution Lane 1: human heart lysate Lane 2: human skeletal muscle lysate Lysates/proteins at 20 µg per lane. Secondary Goat Anti-Rabbit IgG, (H+L), Peroxidase conjugated at 1/10000 dilution. Predicted band size : 60 kDa Blocking/Dilution buffer: 5% NFDM/TBST.