10320 Camino Santa Fe, Suite G
San Diego, CA 92121
Tel: 858.875.1900 Fax: 858.875.1999

TRIM55 Antibody (Center)
Purified Rabbit Polyclonal Antibody (Pab)
Catalog # AP21736c

Specification

TRIM55 Antibody (Center) - Product Information

Application	**WB,E**
Primary Accession	Q9BYV6
Reactivity	**Human**
Host	**Rabbit**
Clonality	**polyclonal**
Isotype	**Rabbit IgG**
Calculated MW	**60466**

TRIM55 Antibody (Center) - 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

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.

TRIM55 Antibody (Center) - 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. Modifies also 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}

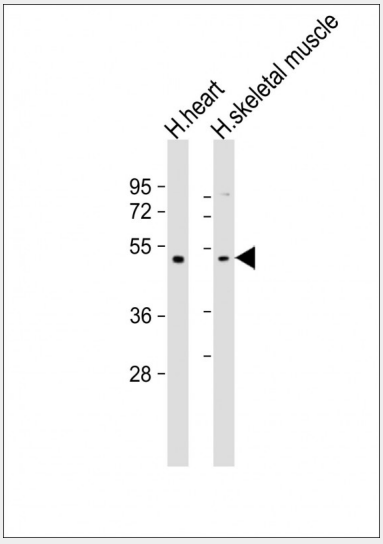
Tissue Location
Highly expressed in muscle. Low-level expression in liver.

TRIM55 Antibody (Center) - Protocols

Provided below are standard protocols that you may find useful for product applications.

- Western Blot
- Blocking Peptides
- Dot Blot
- Immunohistochemistry
- Immunofluorescence
- Immunoprecipitation
- Flow Cytomety
- Cell Culture

TRIM55 Antibody (Center) - 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.

TRIM55 Antibody (Center) - Background

May regulate gene expression and protein turnover in muscle cells.

TRIM55 Antibody (Center) - 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.
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