

TRIM55 antibody - N-terminal region

Rabbit Polyclonal Antibody Catalog # AI12271

Product Information

Application WB Primary Accession Q9BYV6

Other Accession <u>NM 184085, NP 908973</u>

Reactivity Human, Mouse, Rat, Rabbit, Zebrafish, Pig, Dog, Guinea Pig, Horse, Bovine

Predicted Human, Mouse, Rabbit, Zebrafish, Pig, Chicken, Dog, Horse, Bovine

Host Rabbit
Clonality Polyclonal
Calculated MW 60466

Additional Information

Gene ID 84675

Alias Symbol MURF-2, RNF29, muRF2

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 100% homologous to all four isoforms of TRIM55.

Format Liquid. Purified antibody supplied in 1x PBS buffer with 0.09% (w/v) sodium

azide and 2% sucrose.

Reconstitution & Storage Add 50 ul of distilled water. Final anti-TRIM55 antibody concentration is 1

mg/ml in PBS buffer with 2% sucrose. For longer periods of storage, store at

20°C. Avoid repeat freeze-thaw cycles.

Precautions TRIM55 antibody - N-terminal region 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.

References

Lange, S., (2005) Science 308 (5728), 1599-1603 Reconstitution and Storage: For short termuse, store at 2-8 Cup to 1 we ek. For long terms to rage, store at 2-20 Cinsmall aliquots to prevent freeze-thaw cycles.

Images

90 kDa_ 65 kDa_ 40 kDa_ 31 kDa_ 22 kDa_

WB Suggested Anti-TRIM55 Antibody Titration: 0.2-1

µg/ml

ELISA Titer: 1:312500

Positive Control: Human brain

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