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TRIM55 antibody - N-terminal region
Rabbit Polyclonal Antibody
Catalog # AI12271

Specification

TRIM55 antibody - N-terminal region - Product Information

Application	**WB**
Primary Accession	Q9BYV6
Other Accession	NM_184085, NP_908973
Reactivity	**Human, Mouse, Rat, Rabbit, Zebrafish, Pig, Horse, Bovine, Guinea Pig, Dog**
Predicted	**Human, Mouse, Rabbit, Zebrafish, Pig, Chicken, Horse, Bovine, Dog**
Host	**Rabbit**
Clonality	**Polyclonal**
Calculated MW	**60kDa KDa**

TRIM55 antibody - N-terminal region - 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.

TRIM55 antibody - N-terminal region - 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}

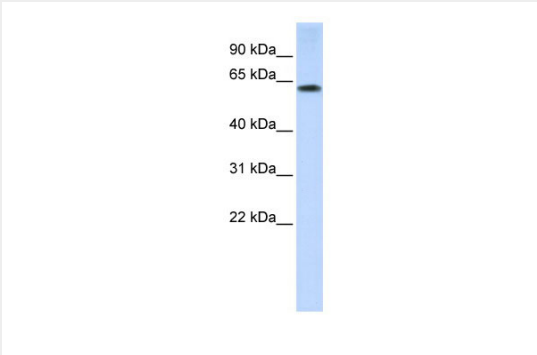
Tissue Location
Highly expressed in muscle. Low-level expression in liver.

TRIM55 antibody - N-terminal region - 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 - N-terminal region - Images



WB Suggested Anti-TRIM55 Antibody Titration: 0.2-1 µg/ml
ELISA Titer: 1:312500
Positive Control: Human brain

TRIM55 antibody - N-terminal region - References

Lange,S.,(2005)Science308(5728),1599-1603ReconstitutionandStorage:Forshorttermuse,storeat2-8Cupto1week.Forlongtermstorage,storeat-20Cinsmallaliquotstopreventfreeze-thawcycles.