

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

---

**TRIM55 antibody - N-terminal region - Product Information**

Application	WB
Primary Accession	<a href="#">Q9BYV6</a>
Other Accession	<a href="#">NM_184085</a> , <a href="#">NP_908973</a>
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. Also modifies PPARG via polyubiquitination and accelerates PPARG proteasomal degradation to inhibit its activity (PubMed: [36737649](http://www.uniprot.org/citations/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

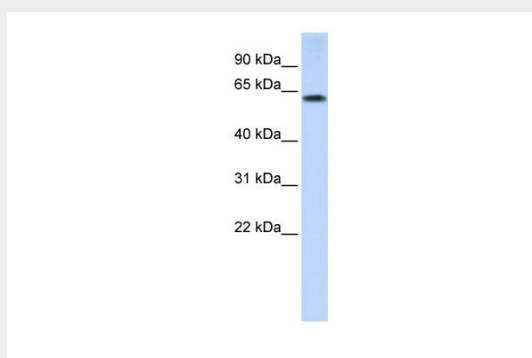
Highly expressed in muscle. Low-level expression in liver.

### 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 Cytometry](#)
- [Cell Culture](#)

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



WB Suggested Anti-TRIM55 Antibody Titration: 0.2-1  $\mu$ g/ml  
ELISA Titer: 1:312500  
Positive Control: Human brain

### TRIM55 antibody - N-terminal region - References

Lange, S., (2005) Science 308(5728), 1599-1603 Reconstitution and Storage: For short term use, store at 2-8 C up to 1 week. For long term storage, store at -20 C in small aliquots to prevent freeze-thaw cycles.