

MURF2 / TRIM55 Antibody (C-Term)
Peptide-affinity purified goat antibody
Catalog # AF2320a**Specification**

MURF2 / TRIM55 Antibody (C-Term) - Product Information

Application	WB, E
Primary Accession	Q9BYV6
Other Accession	NP_908973.1 , NP_908974.1 , NP_908975.1 , 84675 , 381485 (mouse) , 365751 (rat)
Reactivity	Human, Mouse
Predicted	Rat, Pig, Dog
Host	Goat
Clonality	Polyclonal
Concentration	0.5 mg/ml
Isotype	IgG
Calculated MW	60466

MURF2 / TRIM55 Antibody (C-Term) - 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

Dilution

WB~~1:1000

E~~N/A

Format

0.5 mg/ml in Tris saline, 0.02% sodium azide, pH7.3 with 0.5% bovine serum albumin

Storage

Maintain refrigerated at 2-8°C for up to 6 months. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.

Precautions

MURF2 / TRIM55 Antibody (C-Term) is for research use only and not for use in diagnostic or therapeutic procedures.

MURF2 / TRIM55 Antibody (C-Term) - 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- κ 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.

MURF2 / TRIM55 Antibody (C-Term) - 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](#)

MURF2 / TRIM55 Antibody (C-Term) - Images

AF2320a (0.1 μ g/ml) staining of Human Heart lysate (35 μ g protein in RIPA buffer). Primary

incubation was 1 hour. Detected by chemiluminescence.

MURF2 / TRIM55 Antibody (C-Term) - Background

This antibody is expected to recognize isoforms 1, 3 and 4 (NP_908973.1, NP_908974.1 and NP_908975.1 resp.).

MURF2 / TRIM55 Antibody (C-Term) - References

Identification of muscle specific ring finger proteins as potential regulators of the titin kinase domain. Centner T, Yano J, Kimura E, McElhinny AS, Pelin K, Witt CC, Bang ML, Trombitas K, Granzier H, Gregorio CC, Sorimachi H, Labeit S. J Mol Biol. 2001 Mar 2;306(4):717-26. PMID: 11243782