

**TRIM72 Antibody (internal region)**  
**Peptide-affinity purified goat antibody**  
**Catalog # AF3364a****Specification**

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**TRIM72 Antibody (internal region) - Product Information**

Application	WB, IHC
Primary Accession	<a href="#">Q6ZMU5</a>
Other Accession	<a href="#">NP_001008275.1</a> , <a href="#">493829</a> , <a href="#">434246 (mouse)</a> , <a href="#">365377 (rat)</a>
Reactivity	Human, Mouse, Rat
Predicted	Dog, Cow
Host	Goat
Clonality	Polyclonal
Concentration	0.5 mg/ml
Isotype	IgG
Calculated MW	52731

**TRIM72 Antibody (internal region) - Additional Information****Gene ID** 493829**Other Names**

Tripartite motif-containing protein 72, Mitsugumin-53, Mg53, TRIM72 (<a href="http://www.genenames.org/cgi-bin/gene\_symbol\_report?hgnc\_id=32671" target="\_blank">HGNC:32671</a>), MG53

**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**

TRIM72 Antibody (internal region) is for research use only and not for use in diagnostic or therapeutic procedures.

**TRIM72 Antibody (internal region) - Protein Information****Name** TRIM72 ([HGNC:32671](#))**Synonyms** MG53**Function**

Muscle-specific protein that plays a central role in cell membrane repair by nucleating the assembly of the repair machinery at injury sites. Specifically binds phosphatidylserine. Acts as a

sensor of oxidation: upon membrane damage, entry of extracellular oxidative environment results in disulfide bond formation and homooligomerization at the injury site. This oligomerization acts as a nucleation site for recruitment of TRIM72-containing vesicles to the injury site, leading to membrane patch formation. Probably acts upstream of the  $\text{Ca}^{2+}$ - dependent membrane resealing process. Required for transport of DYSF to sites of cell injury during repair patch formation. Regulates membrane budding and exocytosis. May be involved in the regulation of the mobility of KCNB1-containing endocytic vesicles (By similarity).

#### Cellular Location

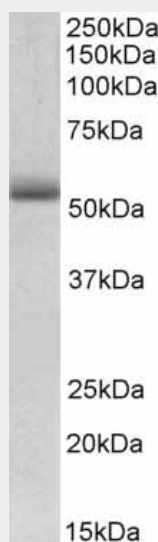
Cell membrane, sarcolemma. Cytoplasmic vesicle membrane. Note=Tethered to plasma membrane and cytoplasmic vesicles via its interaction with phosphatidylserine.

#### TRIM72 Antibody (internal region) - Protocols

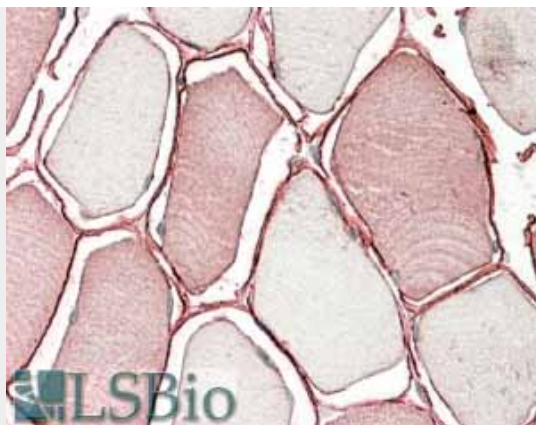
Provided below are standard protocols that you may find useful for product applications.

- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

#### TRIM72 Antibody (internal region) - Images



AF3364a (0.01  $\mu\text{g/ml}$ ) staining of Mouse Heart lysate (35  $\mu\text{g}$  protein in RIPA buffer). Primary incubation was 1 hour. Detected by chemiluminescence.



AF3364a (3.8 µg/ml) staining of paraffin embedded Human Skeletal Muscle. Steamed antigen retrieval with citrate buffer pH 6, AP-staining.

#### **TRIM72 Antibody (internal region) - References**

Crystal structure of PRY-SPRY domain of human TRIM72. Park EY, Kwon OB, Jeong BC, Yi JS, Lee CS, Ko YG, Song HK, Proteins 2010 Feb 78 (3): 790-5. PMID: 19967786