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TRIM72 Antibody (internal region)

Peptide-affinity purified goat antibody
Catalog # AF3364a

Specification

TRIM72 Antibody (internal region) - Product Information

Application	**WB, IHC, E**
Primary Accession	Q6ZMU5
Other Accession	NP_001008275.1, 493829, 434246 (mouse), 365377 (rat)
Reactivity	**Human, Mouse, Rat**
Predicted	**Dog**
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 (HGNC:32671), MG53

Dilution
WB~~1:1000
IHC~~1:100~500
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
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 E3 ubiquitin-protein ligase that plays a central role in cell membrane repair by nucleating the assembly of the repair machinery at injury sites (PubMed:36944613). Its ubiquitination activity is mediated by E2 ubiquitin-conjugating enzymes UBE2D1, UBE2D2 and UBE2D3 (By similarity). 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 (By similarity). This oligomerization acts as a nucleation site for recruitment of TRIM72-containing vesicles to the injury site, leading to membrane patch formation (By similarity). Probably acts upstream of the Ca(2+)-dependent membrane resealing process (By similarity). Required for transport of DYSF to sites of cell injury during repair patch formation (By similarity). Regulates membrane budding and exocytosis (By similarity). May be involved in the regulation of the mobility of KCNB1-containing endocytic vesicles (By similarity).

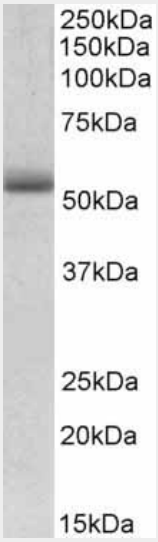
Cellular Location
Cell membrane, sarcolemma. Cytoplasmic vesicle membrane Note=Tethered to plasma membrane and cytoplasmic vesicles via its interaction with phosphatidylserine. {ECO:0000250, ECO:0000269|PubMed:36944613, ECO:0000269|PubMed:37770719}

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 Cytomety
- Cell Culture

TRIM72 Antibody (internal region) - Images



AF3364a (0.01 µg/ml) staining of Mouse Heart lysate (35 µg protein in RIPA buffer). Primary

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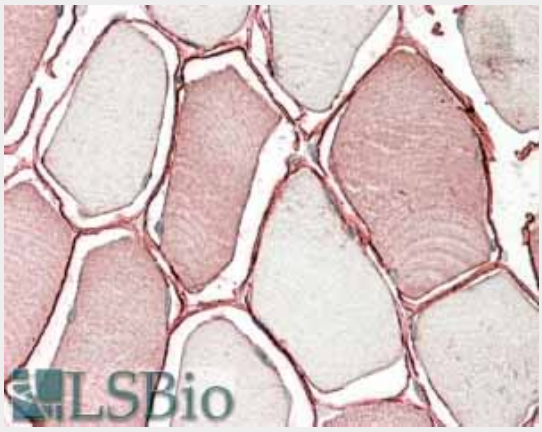
incubation was 1 hour. Detected by chemiluminescence.



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