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TRIM72 Polyclonal Antibody
Catalog # AP63497

Specification

TRIM72 Polyclonal Antibody - Product Information

Application	**WB, IHC-P**
Primary Accession	Q6ZMU5
Reactivity	**Human, Mouse, Rat**
Host	**Rabbit**
Clonality	**Polyclonal**

TRIM72 Polyclonal Antibody - Additional Information

Gene ID 493829

Other Names
Tripartite motif-containing protein 72; Mitsugumin-53; Mg53

Dilution
WB~~WB: 1:1000 IHC: 1:200-500
IHC-P~~N/A

Format
PBS, pH 7.4, containing 0.09% (W/V) sodium azide as Preservative and 50% Glycerol.

Storage Conditions
-20℃

TRIM72 Polyclonal Antibody - 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).

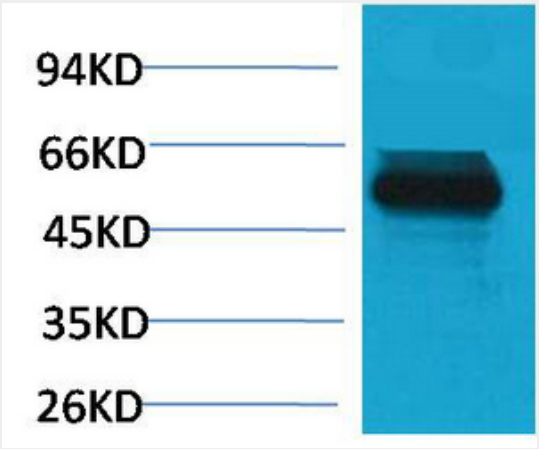
Cellular Location
Cell membrane, sarcolemma. Cytoplasmic vesicle membrane Note=Tethered to plasma membrane and cytoplasmic vesicles via its interaction with phosphatidylserine. {ECO:0000250, ECO:0000269|PubMed:36944613, ECO:0000269|PubMed:37770719}

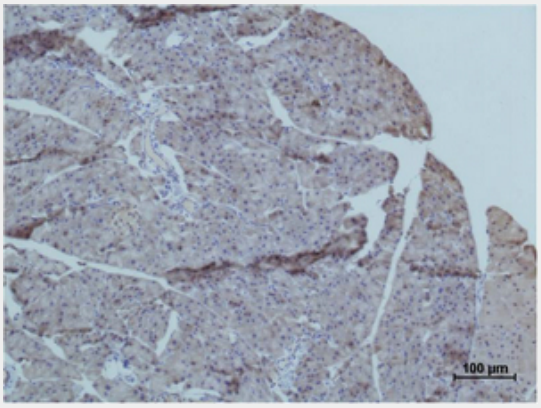
TRIM72 Polyclonal Antibody - Protocols

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 Polyclonal Antibody - Images





TRIM72 Polyclonal Antibody - Background

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 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).