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TRIM72 Antibody (C-term) Blocking peptide
Synthetic peptide
Catalog # BP11980b

Specification

TRIM72 Antibody (C-term) Blocking peptide - Product Information

Primary Accession Q6ZMU5

TRIM72 Antibody (C-term) Blocking peptide - Additional Information

Gene ID 493829

Other Names
Tripartite motif-containing protein 72, Mitsugumin-53, Mg53, TRIM72 (HGNC:32671), MG53

Format
Peptides are lyophilized in a solid powder format. Peptides can be reconstituted in solution using the appropriate buffer as needed.

Storage
Maintain refrigerated at 2-8°C for up to 6 months. For long term storage store at -20°C.

Precautions
This product is for research use only. Not for use in diagnostic or therapeutic procedures.

TRIM72 Antibody (C-term) Blocking peptide - 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 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.

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TRIM72 Antibody (C-term) Blocking peptide - Protocols

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

- Blocking Peptides

TRIM72 Antibody (C-term) Blocking peptide - Images

TRIM72 Antibody (C-term) Blocking peptide - Background

TRIM72 is a 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).

TRIM72 Antibody (C-term) Blocking peptide - References

Park, E.Y., et al. Proteins 78(3):790-795(2010)Han, S., et al. Hum. Mol. Genet. 18(6):1171-1180(2009)Martin, J., et al. Nature 432(7020):988-994(2004)