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Anti-TRIM72 / MG53 Antibody (aa61-70)

Goat Anti Human Polyclonal Antibody
Catalog # ALS17817

Product Information

Application	WB, IHC-P, E
Primary Accession	Q6ZMU5
Predicted	Human, Mouse, Rat, Rabbit, Hamster, Monkey, Bovine
Host	Goat
Clonality	Polyclonal
Calculated MW	52731
Concentration (mg/ml)	0.5 mg/ml

Additional Information

Gene ID	493829
Alias Symbol	TRIM72
Other Names	TRIM72, MG53, Tripartite motif containing 72, Tripartite motif-containing 72, Mitsugumin-53
Target/Specificity	Human TRIM72.
Reconstitution & Storage	Immunoaffinity purified
Precautions	Anti-TRIM72 / MG53 Antibody (aa61-70) is for research use only and not for use in diagnostic or therapeutic procedures.

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}

Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.