

Rev.: 2026-3-27

TRIM72

Recombinant Rabbit Monoclonal Antibody

Product Datasheet

Catalog# BX50376

Clone# BP6343

Predicted Molecular Wt: 53kDa

Species Cross-reactivity: Human

Applications: IHC-P

Purity: ProA affinity purified IgG

Form: Liquid

Swissprot ID: Q6ZMU5

Background:

TRIM72 (tripartite motif containing 72), also known as MG53, is a 477 amino acid cytoplasmic vesicle membrane protein that belongs to the TRIM/RBCC family. Existing as a homooligomer, TRIM72 contains one B box-type zinc finger, one B30.2/SPRY domain and a RING-type zinc finger. TRIM72 is considered a muscle-specific protein that plays a central role in cell membrane repair by nucleating the assembly of the repair machinery at injury sites. TRIM72 is required for transport of dysferlin to sites of cell injury during repair patch formation. TRIM72 also regulates membrane budding and exocytosis and may be involved in the regulation of the mobility of KV2.1-containing endocytic vesicles.

TRIM72 is predominantly and highly expressed in normal human skeletal muscle and myocardium, with negligible or undetectable expression in the other normal tissues.

TRIM72 can be a sensitive serum biomarker for skeletal muscle injury (e.g., muscular dystrophy, exercise-induced myopathy) and myocardial injury (e.g., acute myocardial infarction, coronary artery disease, myocarditis), with elevated circulating TRIM72 levels serving as a diagnostic indicator for both skeletal and cardiac muscle pathologies.

Subcellular location:

Membrane/Cytoplasm

Recommended Method:

Heat induced epitope retrieval with Tris-EDTA buffer (pH 9.0), primary antibody incubate at RT (18°C-25°C) for 30 minutes.

Immunogen:

The synthetic peptide corresponding to Human TRIM72 aa 428-477.

Storage Buffer:

PBS 59%, Sodium azide 0.01%, Glycerol 40%, BSA 0.05%.

Storage Conditions:

-25°C to -18°C

Shipment Instructions:

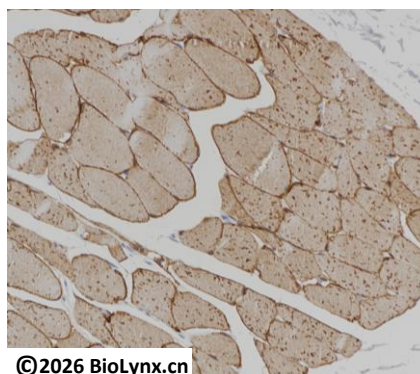
Shipped on blue ice. Upon delivery store at -25°C to -18°C. Avoid freeze / thaw cycles.

Recommended Dilution:

IHC-P: 1:100-1:200

Background References:

- Xie H, et al. Front Physiol. 2020 Dec 17;11:617845.
- Krustev E, et al. medRxiv [Preprint]. 2025 Jul 24:2025.07.23.25332079.



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Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) analysis of human skeletal muscle labelling TRIM72 with BP6343.

Product QC'd by:



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