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Anti-TRIM72 Magnetic Beads

Catalog No. MB-296

Overview

Product name	Anti-TRIM72 Magnetic Beads
Antibody specificity	TRIM72
Species reactivity	Human, Rat
Host / isotype	Mouse / IgG
Cross reactivity	Not tested
Target antigen	Protein name: Tripartite motif containing 72 Gene name: TRIM72 UniProt Accession: Q6ZMU5 Organism: <i>Homo sapiens</i> (Human)
Background	Tripartite motif-containing protein 72 (TRIM72), also known as MG53, is a muscle-specific protein that plays a critical role in cell membrane repair, particularly during muscle injury. It is characterized by its tripartite motif, which includes a RING finger domain and coiled-coil regions, enabling its function as an E3 ubiquitin ligase. TRIM72 is essential for the recruitment of repair machinery to damaged membranes, facilitating membrane fusion and exocytosis. Dysregulation of TRIM72 has been associated with several diseases, including Miyoshi muscular dystrophy, a genetic condition leading to muscle degeneration, and cardiac fibrosis, where it influences the proliferation and migration of cardiac fibroblasts through the TGF- β signaling pathway. Additionally, its role in muscle repair suggests potential implications in various muscular dystrophies and cardiomyopathies.
Bead diameter	30 μ m
Form	Subject to solid-liquid separation upon standing; Mix thoroughly to ensure a consistent, homogeneous
Formulation	Supplied as solution in phosphate buffered saline containing 0.1% Tween-20 and 0.02% sodium azide
Shipping, storage and shelf life	Shipped at ambient temperature. Avoid freezing. Upon receipt, * 12 months when stored at 2 to 8 °C

Applications

	Usage per Test (μ L)	Note
Immunoprecipitation (IP)	15	

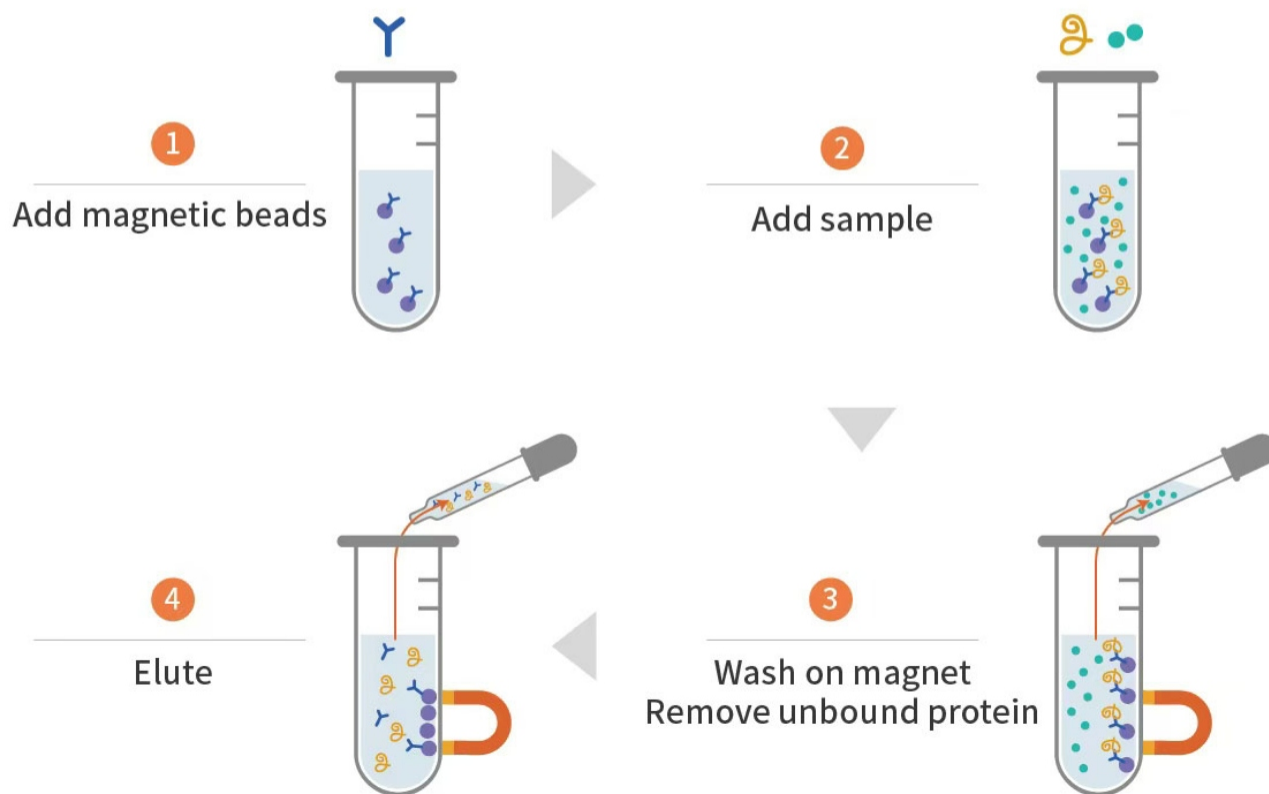
Note:

*The applications shown above have already been verified. This magnetic beads may be suitable for other applications.

*Optimal magnetic beads concentrations for each application should be determined by the user.

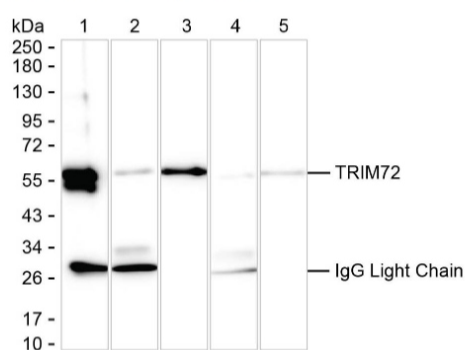
Workflow Diagram

● Magnetic beads Y Antibody Target protein ● Nonspecific protein



Product data

Immunoprecipitation



[Click to view full-size image](#)

Immunoprecipitation analysis of TRIM72 by MB-296.

15 μ L of Anti-TRIM72 Magnetic Beads (MB-296) were pre-washed three times with lysis buffer, then incubated with 200 μ g of rat skeletal muscle tissue lysate. After incubation, beads were washed six times and eluted by boiling in either denaturing loading buffer or Absea Gentle buffer for 10 min. Samples were resolved by 6–18% SDS-PAGE and transferred to a nitrocellulose membrane.

Western blot was performed using Anti-TRIM72 Antibody (OC-035) as the primary antibody, followed by HRP-conjugated rabbit anti-mouse IgG (Light chain specific). Control IP was performed with Anti-TRIM72 Antibody (OC-488).

Lane 1: TRIM72 immunoprecipitated by MB-296, eluted with denaturing buffer

Lane 2: Control IP using OC-488, eluted with denaturing buffer

Lane 3: TRIM72 immunoprecipitated by MB-296, eluted with Absea Gentle buffer

Lane 4: Control IP using OC-488, eluted with Absea Gentle buffer

Lane 5: Input lysate

Result: Anti-TRIM72 Magnetic Beads (MB-296) exhibit higher IP efficiency and lower antibody leaching compared with the conventional antibody OC-488.

