




Product datasheet

Anti-MG53 antibody (Biotin) ab238252

1 Image

Overview

Product name	Anti-MG53 antibody (Biotin)
Description	Goat polyclonal to MG53 (Biotin)
Host species	Goat
Conjugation	Biotin
Tested applications	Suitable for: WB
Species reactivity	Reacts with: Mouse Predicted to work with: Rat, Rabbit, Human 
Immunogen	Synthetic peptide corresponding to Human MG53 aa 61-70 (internal sequence). NP_001008275.1. Sequence: C-RPQALSTNLQ Database link: Q6ZMU5  Run BLAST with  Run BLAST with
Positive control	WB: Mouse heart lysate.
General notes	This product was previously labelled as TRIM72

Properties

Form	Liquid
Storage instructions	Shipped at 4°C. Store at +4°C short term (1-2 weeks). Upon delivery aliquot. Store at -20°C long term. Avoid freeze / thaw cycle.
Storage buffer	pH: 7.3 Preservative: 0.02% Sodium azide Constituents: Tris buffered saline, 0.5% BSA
Purity	Immunogen affinity purified
Clonality	Polyclonal
Isotype	IgG

Applications

Our [Abpromise guarantee](#) covers the use of **ab238252** in the following tested applications.

The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

Application	Abreviews	Notes
WB		Use a concentration of 0.01 µg/ml. Predicted molecular weight: 53 kDa.

Target

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.

Sequence similarities

Belongs to the TRIM/RBCC family.
Contains 1 B box-type zinc finger.
Contains 1 B30.2/SPRY domain.
Contains 1 RING-type zinc finger.

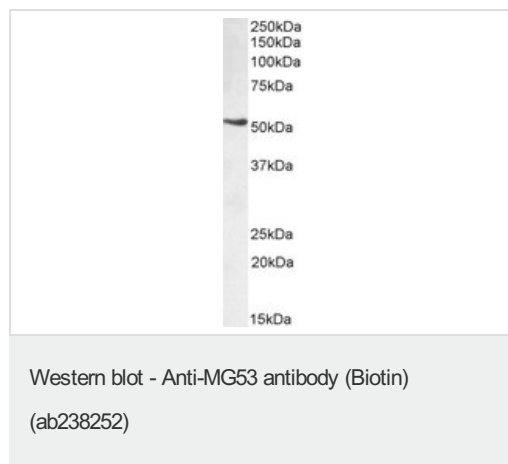
Post-translational modifications

Disulfide bond formation at Cys-242 occurs in case of membrane damage that cause the entry of the oxidized milieu of the extracellular space, resulting in homooligomerization.

Cellular localization

Cell membrane > sarcolemma. Cytoplasmic vesicle membrane. Tethered to plasma membrane and cytoplasmic vesicles via its interaction with phosphatidylserine.

Images



Anti-MG53 antibody (Biotin) (ab238252) at 0.01 µg/ml + Mouse heart lysate in RIPA buffer at 35 µg

Predicted band size: 53 kDa

Incubated with primary antibody for 1 hour.

Detected by chemiluminescence, using streptavidin-HRP and using NAP blocker as a substitute for skimmed milk.

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