

TRIM32 (G-25): sc-134120

BACKGROUND

Tripartite motif-containing protein 32 (TRIM32) belongs to the tripartite motif (TRIM) protein family. TRIM32, like all TRIM proteins, contains a domain structure composed of a B-box, a RING-finger and a coiled-coil motif. Additionally, TRIM32 has six C-terminal NHL domains; it is expressed mainly in the skeletal muscle. The TRIM32 gene encodes an E3 ubiquitin ligase, a protein that attaches ubiquitin to a lysine residue on a target protein and acts in conjunction with ubiquitin-conjugating enzymes UbcH5a, UbcH5c and UbcH6. Mutations in the TRIM32 gene cause two forms of autosomal recessive muscular dystrophy designated limb girdle muscular dystrophy type 2H (LGMD2H) and sarcotubular myopathy (STM). TRIM32 mutations can also result in Bardet-Biedl syndrome (BBS), an autosomal recessive disorder characterized by pigmentary retinopathy, polydactyly, hypogenitalism, renal abnormalities, learning disabilities and obesity.

REFERENCES

1. Online Mendelian Inheritance in Man, OMIM™. 2002. Johns Hopkins University, Baltimore, MD. MIM Number: 602290. World Wide Web URL: <http://www.ncbi.nlm.nih.gov/omim/>
2. Horn, E.J., et al. 2004. RING protein TRIM32 associated with skin carcinogenesis has anti-apoptotic and E3-ubiquitin ligase properties. *Carcinogenesis* 25: 157-167.
3. Frosk, P., et al. 2005. Hutterite brothers both affected with two forms of limb girdle muscular dystrophy: LGMD2H and LGMD2I. *Eur. J. Hum. Genet.* 13: 978-982.
4. Schoser, B.G., et al. 2005. Commonality of TRIM32 mutation in causing sarcotubular myopathy and LGMD2H. *Ann. Neurol.* 57: 591-595.
5. Guglieri, M., et al. 2005. Molecular etiopathogenesis of limb girdle muscular and congenital muscular dystrophies: boundaries and contiguities. *Clin. Chim. Acta* 361: 54-79.
6. Kudryashova, E., et al. 2005. TRIM32 is a ubiquitin ligase mutated in limb girdle muscular dystrophy type 2H that binds to skeletal muscle Myosin and ubiquitinates Actin. *J. Mol. Biol.* 354: 413-424.

CHROMOSOMAL LOCATION

Genetic locus: TRIM32 (human) mapping to 9q33.1; Trim32 (mouse) mapping to 4 C1.

SOURCE

TRIM32 (G-25) is an affinity purified rabbit polyclonal antibody raised against a C-terminal region of TRIM32 of human origin.

PRODUCT

Each vial contains 50 µg IgG in 0.5 ml of PBS with < 0.1% sodium azide, 0.1% gelatin and < 0.02% sucrose.

STORAGE

Store at 4° C, ****DO NOT FREEZE****. Stable for one year from the date of shipment. Non-hazardous. No MSDS required.

APPLICATIONS

TRIM32 (G-25) is recommended for detection of TRIM32 of mouse, rat and human origin by Western Blotting (starting dilution 1:200, dilution range 1:100-1:1000), immunoprecipitation [1-2 µg per 100-500 µg of total protein (1 ml of cell lysate)], immunofluorescence (starting dilution 1:50, dilution range 1:50-1:500) and solid phase ELISA (starting dilution 1:30, dilution range 1:30-1:3000).

TRIM32 (G-25) is also recommended for detection of TRIM32 in additional species, including equine, bovine and canine.

Suitable for use as control antibody for TRIM32 siRNA (h): sc-61714, TRIM32 siRNA (m): sc-61715, TRIM32 shRNA Plasmid (h): sc-61714-SH, TRIM32 shRNA Plasmid (m): sc-61715-SH, TRIM32 shRNA (h) Lentiviral Particles: sc-61714-V and TRIM32 shRNA (m) Lentiviral Particles: sc-61715-V.

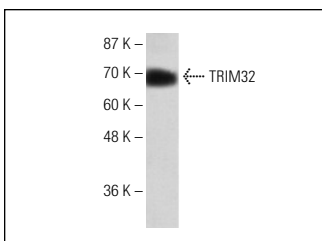
Molecular Weight of TRIM32: 72 kDa.

Positive Controls: human TRIM32 transfected 293T whole cell lysate.

RECOMMENDED SECONDARY REAGENTS

To ensure optimal results, the following support (secondary) reagents are recommended: 1) Western Blotting: use goat anti-rabbit IgG-HRP: sc-2004 (dilution range: 1:2000-1:100,000) or Cruz Marker™ compatible goat anti-rabbit IgG-HRP: sc-2030 (dilution range: 1:2000-1:5000), Cruz Marker™ Molecular Weight Standards: sc-2035, TBS Blotto A Blocking Reagent: sc-2333 and Western Blotting Luminol Reagent: sc-2048. 2) Immunoprecipitation: use Protein A/G PLUS-Agarose: sc-2003 (0.5 ml agarose/2.0 ml). 3) Immunofluorescence: use goat anti-rabbit IgG-FITC: sc-2012 (dilution range: 1:100-1:400) or goat anti-rabbit IgG-TR: sc-2780 (dilution range: 1:100-1:400) with UltraCruz™ Mounting Medium: sc-24941.

DATA



TRIM32 (G-25): sc-134120. Western blot analysis of human TRIM32 transfected 293T whole cell lysate.

RESEARCH USE

For research use only, not for use in diagnostic procedures.

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Try **TRIM32 (8H8): sc-135588**, our highly recommended monoclonal alternative to TRIM32 (G-25).