SANTA CRUZ BIOTECHNOLOGY, INC.

TRIM32 (H-88): sc-99011

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The Power to Question

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

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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.
7. Chiang, A.P., et al. 2006. Homozygosity mapping with SNP arrays identifies TRIM32, an E3 ubiquitin ligase, as a Bardet-Biedl syndrome gene (BBS11). Proc. Natl. Acad. Sci. USA 103: 6287-6292.

CHROMOSOMAL LOCATION

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

SOURCE

TRIM32 (H-88) is a rabbit polyclonal antibody raised against amino acids 415-502 mapping near the C-terminus of TRIM32 of human origin.

PRODUCT

Each vial contains 200 µg IgG in 1.0 ml of PBS with < 0.1% sodium azide and 0.1% gelatin.

APPLICATIONS

TRIM32 (H-88) 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).

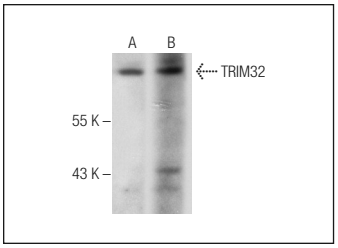
TRIM32 (H-88) is also recommended for detection of TRIM32 in additional species, including equine, bovine and porcine.

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.

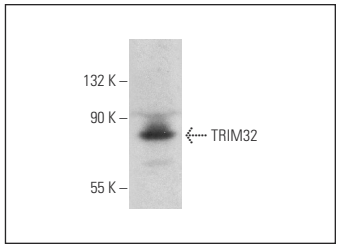
Molecular Weight of TRIM32: 72 kDa.

Positive Controls: HeLa whole cell lysate: sc-2200, C2C12 whole cell lysate: sc-364188 or A-431 whole cell lysate: sc-2201.

DATA



TRIM32 (H-88): sc-99011. Western blot analysis of TRIM32 expression in HeLa (**A**) and A-431 (**B**) whole cell lysates.



TRIM32 (H-88): sc-99011. Western blot analysis of TRIM32 expression in C2C12 whole cell lysate.

STORAGE

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

RESEARCH USE

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

PROTOCOLS

See our web site at www.scbt.com or our catalog for detailed protocols and support products.