TRIM23 (M-20): sc-130046

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BACKGROUND

The tripartite motif (TRIM) family of proteins are characterized by a conserved TRIM domain that includes a coiled-coil region, a B-box type zinc finger, one RING finger and three zinc-binding domains. TRIM23 (Tripartite motif-containing protein 23), also known as ARD1, ARFD1 or RNF46, is a 574 amino acid intracytoplasmic membrane protein that associates with the Golgi apparatus and with lysosomal structures. Belonging to both the TRIM protein family and the ADP ribosylation factor family of guanine nucleotide-binding proteins, TRIM23 plays a role in the formation of intracellular transport vesicles and aids in the movement of vesicles from one compartment to another. Additionally, TRIM23 interacts with cytohesin-1, an association that is thought to activate TRIM23 function. Three isoforms of TRIM23, designated α, β and γ, are expressed due to alternative splicing events.

REFERENCES

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2. Vitale, N., Horiba, K., Ferrans, V.J., Moss, J. and Vaughan, M. 1998. Localization of ADP-ribosylation factor domain protein 1 (ARD1) in lyso-somes and Golgi apparatus. Proc. Natl. Acad. Sci. USA 95: 8613-8618.

3. Vitale, N., Pacheco-Rodriguez, G., Ferrans, V.J., Riemenschneider, W., Moss, J. and Vaughan, M. 2000. Specific functional interaction of human cytohesin-1 and ADP-ribosylation factor domain protein (ARD1). J. Biol. Chem. 275: 21331-21339.

4. Simard, M.J. and Chabot, B. 2000. Control of hnRNP A1 alternative splicing: an intron element represses use of the common 3' splice site. Mol. Cell. Biol. 20: 7353-7362.

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CHROMOSOMAL LOCATION

Genetic locus: TRIM23 (human) mapping to 5q12.3; Trim23 (mouse) mapping to 13 D1.

SOURCE

TRIM23 (M-20) is a purified rabbit polyclonal antibody raised against TRIM23 of human origin.

PRODUCT

Each vial contains 100 µg IgG in 1.0 ml 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

TRIM23 (M-20) is recommended for detection of TRIM23 of mouse, rat, human and dog 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)] and solid phase ELISA (starting dilution 1:30, dilution range 1:30-1:3000).

Suitable for use as control antibody for TRIM23 siRNA (h): sc-106640, TRIM23 siRNA (m): sc-154643, TRIM23 shRNA Plasmid (h): sc-106640-SH, TRIM23 shRNA Plasmid (m): sc-154643-SH, TRIM23 shRNA (h) Lentiviral Particles: sc-106640-V and TRIM23 shRNA (m) Lentiviral Particles: sc-154643-V.

Molecular Weight of TRIM23: 64 kDa.

Positive Controls: Hep G2 cell lysate: sc-2227.

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) Immunoprecip-itation: use Protein A/G PLUS-Agarose: sc-2003 (0.5 ml agarose/2.0 ml).

DATA
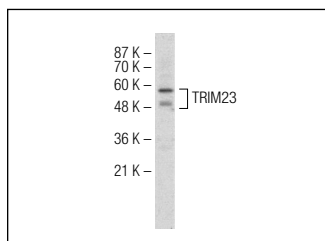
TRIM23 (M-20): sc-130046. Western blot analysis of TRIM23 expression in Hep G2 whole cell lysate.

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.

MONOS
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Try **TRIM23 (C-1): sc-393923** or **TRIM23 (8H9): sc-135587**, our highly recommended monoclonal alternatives to TRIM23 (M-20).