

TRIM52 (h): 293T Lysate: sc-370116

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. TRIM52 (tripartite motif-containing 52), also known as RNF102 (RING finger protein 102), is a 297 amino acid protein that belongs to the TRIM family and contains one B box-type zinc fingers and one RING-type zinc finger. The gene encoding TRIM52 maps to chromosome 5, which is associated with Cockayne syndrome through the ERCC8 gene and familial adenomatous polyposis through the adenomatous polyposis coli (APC) tumor suppressor gene. Treacher Collins syndrome is also chromosome 5 associated and is caused by insertions or deletions within the TCOF1 gene. Deletion of the p arm of chromosome 5 leads to Cri-du-chat syndrome. Deletion of 5q or chromosome 5 altogether is common in therapy-related acute myelogenous leukemias and myelodysplastic syndrome.

REFERENCES

1. Rauch, A. and Dörr, H.G. 2007. Chromosome 5q subtelomeric deletion syndrome. *Am. J. Med. Genet. C, Semin. Med. Genet.* 145C: 372-376.
2. Villa, N., Redaelli, S., Borroni, C., Colombo, C., Roncaglia, N., Sala, E., Crosti, F., Cappellini, A. and Dalprà, L. 2007. Fetal trisomy 5 mosaicism: case report and literature review. *Am. J. Med. Genet. A* 143A: 2343-2346.
3. Shadduck, R.K., Latsko, J.M., Rossetti, J.M., Haq, B. and Abdulhaq, H. 2007. Recent advances in myelodysplastic syndromes. *Exp. Hematol.* 35: 137-143.
4. Falini, B., Nicoletti, I., Bolli, N., Martelli, M.P., Liso, A., Gorello, P., Mandelli, F., Mecucci, C. and Martelli, M.F. 2007. Translocations and mutations involving the nucleophosmin (NPM1) gene in lymphomas and leukemias. *Haematologica* 92: 519-532.
5. Kristoffersen, K.E. 2008. Speech and language development in cri du chat syndrome: a critical review. *Clin. Linguist. Phon.* 22: 443-457.
6. Valent, P. 2008. Revealing the pathogenesis of the 5q-syndrome. *Eur. J. Clin. Invest.* 38: 539-540.
7. Buysse, K., Crepel, A., Menten, B., Pattyn, F., Antonacci, F., Veltman, J.A., Larsen, L.A., Tümer, Z., de Klein, A., van de Laar, I., Devriendt, K., Mortier, G. and Speleman, F. 2008. Mapping of 5q35 chromosomal rearrangements within a genomically unstable region. *J. Med. Genet.* 45: 672-678.
8. Azman, B.Z., Akhira, S.M., Zilfalil, B.A. and Ankathil, R. 2008. Two cases of deletion 5p syndrome: one with paternal involvement and another with atypical presentation. *Singapore Med. J.* 49: e98-e100.

STORAGE

Store at -20° C. Repeated freezing and thawing should be minimized. Sample vial should be boiled once prior to use. Non-hazardous. No MSDS required.

PROTOCOLS

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

CHROMOSOMAL LOCATION

Genetic locus: TRIM52 (human) mapping to 5q35.3.

PRODUCT

TRIM52 (h): 293T Lysate represents a lysate of human TRIM52 transfected 293T cells and is provided as 100 µg protein in 200 µl SDS-PAGE buffer.

APPLICATIONS

TRIM52 (h): 293T Lysate is suitable as a Western Blotting positive control for human reactive TRIM52 antibodies. Recommended use: 10-20 µl per lane.

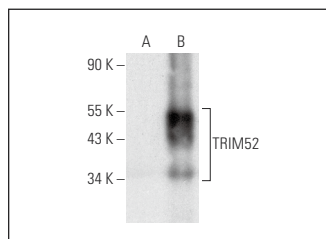
Control 293T Lysate: sc-117752 is available as a Western Blotting negative control lysate derived from non-transfected 293T cells.

TRIM52 (A-4): sc-398954 is recommended as a positive control antibody for Western Blot analysis of enhanced human TRIM52 expression in TRIM52 transfected 293T cells (starting dilution 1:100, dilution range 1:100-1:1,000).

RECOMMENDED SUPPORT REAGENTS

To ensure optimal results, the following support reagents are recommended:
1) Western Blotting: use m-IgGκ BP-HRP: sc-516102 or m-IgGκ BP-HRP (Cruz Marker): sc-516102-CM (dilution range: 1:1000-1:10000), Cruz Marker™ Molecular Weight Standards: sc-2035, UltraCruz® Blocking Reagent: sc-516214 and Western Blotting Luminol Reagent: sc-2048.

DATA



TRIM52 (A-4): sc-398954. Western blot analysis of TRIM52 expression in non-transfected: sc-117752 (A) and human TRIM52 transfected: sc-370116 (B) 293T whole cell lysates.

RESEARCH USE

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