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Produktinformation

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- Diagnostik & molekulare Diagnostik
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Lieferung & Zahlungsart

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- Mindermengenzuschlag
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SANTA CRUZ BIOTECHNOLOGY, INC.

TRPS1 (m2): 293T Lysate: sc-124310

SANTA CRUZ BIOTECHNOLOGY

The Power to Question

BACKGROUND

The autosomal dominant tricho-rhino-phalangeal syndrome type 1 (TRPS1) is a rare disorder clinically characterized by sparse scalp hair, a bulbous nose, protruding ears, a thin upper lip, an elongated philtrum and bone deformities. The human TRPS1 gene maps to chromosome 8q23.3 and encodes a GATA-type zinc-finger protein. TRPS1 binds GATA sequences but does not activate GATA-dependent transcription. In fact, TRPS1 represses transcriptional activation mediated by other GATA factors. The noncompetitive mechanism for transcriptional repression depends upon an Ikaros-like C-terminal region. In mice, mutations in the GATA domain of TRPS1 cause facial abnormalities that parallel TRPS1 symptoms. TRPS1 is expressed during mouse embryonic development in developing joints, hair follicles, snout, lung, spine and brain.

REFERENCES

1. Hansen, D.D. and Shewmake, S.W. 1979. Tricho-rhino-phalangeal syndrome. Int. J. Dermatol. 18: 561-564.
2. Momeni, P., et al. 2000. Mutations in a new gene, encoding a zinc-finger protein, cause tricho-rhino-phalangeal syndrome type I. Nat. Genet. 24: 71-74.
3. Malik, T.H., et al. 2001. Transcriptional repression and developmental functions of the atypical vertebrate GATA protein TRPS1. EMBO J. 20: 1715-1725.
4. Malik, T.H., et al. 2002. Deletion of the GATA domain of TRPS1 causes an absence of facial hair and provides new insights into the bone disorder in inherited tricho-rhino-phalangeal syndromes. Mol. Cell. Biol. 22: 8592-8600.
5. Kunath, M., et al. 2002. Expression of TRPS1 during mouse embryonic development. Gene Expr. Patterns 2: 119-122.
6. Kaiser, F.J., et al. 2003. Nuclear interaction of the Dynein light chain LC8a with the TRPS1 transcription factor suppresses the transcriptional repression activity of TRPS1. Hum. Mol. Genet. 12: 1349-1358.
7. Van den Bemd, G.J., et al. 2003. The atypical GATA protein TRPS1 represses androgen-induced prostate-specific antigen expression in LNCaP prostate cancer cells. Biochem. Biophys. Res. Commun. 312: 578-584.
8. Suemoto, H., et al. 2007. TRPS1 regulates proliferation and apoptosis of chondrocytes through Stat3 signaling. Dev. Biol. 312: 572-581.
9. Itoh, S., et al. 2008. TRPS1 plays a pivotal role downstream of GDF5 signaling in promoting chondrogenesis and apoptosis of ATDC5 cells. Genes Cells 13: 355-363.

CHROMOSOMAL LOCATION

Genetic locus: Trps1 (mouse) mapping to 15 C.

PRODUCT

TRPS1 (m2): 293T Lysate represents a lysate of mouse TRPS1 transfected 293T cells and is provided as 100 µg protein in 200 µl SDS-PAGE buffer.

APPLICATIONS

TRPS1 (m2): 293T Lysate is suitable as a Western Blotting positive control for mouse reactive TRPS1 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.

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.

RESEARCH USE

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

PROTOCOLS

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