



ACTL7B (h): 293T Lysate: sc-115085

BACKGROUND

ACTL7B (Actin-like 7B) is a member of the ARP family of Actin-related proteins that contain an Actin fold and are involved in spindle orientation, nuclear migration and chromatin remodeling events. Localized to the cytoplasm and expressed in the testis and prostate, ACTL7B is 415 amino acids in length and is encoded by a gene that is oriented in a head-to-head formation with the familial dysautonomia (FD) candidate region on chromosome 9. Although located in a region associated with FD, ACTL7B is not involved in the pathogenesis of the genetic disease. ACTL7B shares high sequence similarity with ACTL7A (Actin-like 7A) and contains one conserved protein kinase C (PKC) site and one conserved cAMP/cGMP-dependent phosphorylation site. The human and mouse proteins share 88% sequence similarity.

REFERENCES

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5. Tanaka, H., Iguchi, N., Egydio de Carvalho, C., Tadokoro, Y., Yomogida, K. and Nishimune, Y. 2003. Novel Actin-like proteins T-ACTIN 1 and T-ACTIN 2 are differentially expressed in the cytoplasm and nucleus of mouse haploid germ cells. *Biol. Reprod.* 69: 475-482.
6. Hisano, M., Yamada, S., Tanaka, H., Nishimune, Y. and Nozaki, M. 2003. Genomic structure and promoter activity of the testis haploid germ cell-specific intronless genes, *Tact1* and *Tact2*. *Mol. Reprod. Dev.* 65: 148-156.

CHROMOSOMAL LOCATION

Genetic locus: ACTL7B (human) mapping to 9q31.3.

PRODUCT

ACTL7B (h): 293T Lysate represents a lysate of human ACTL7B transfected 293T cells and is provided as 100 µg protein in 200 µl SDS-PAGE buffer.

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.

APPLICATIONS

ACTL7B (h): 293T Lysate is suitable as a Western Blotting positive control for human reactive ACTL7B antibodies. Recommended use: 10-20 µl per lane.

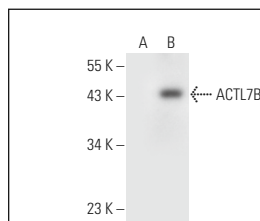
Control 293T Lysate: sc-117752 is available as a Western Blotting negative control lysate derived from non-transfected 293T cells.

ACTL7B (G-2): sc-514196 is recommended as a positive control antibody for Western Blot analysis of enhanced human ACTL7B expression in ACTL7B transfected 293T cells (starting dilution 1:100, dilution range 1:100-1:1,000).

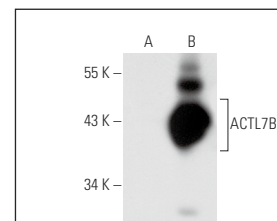
RECOMMENDED SUPPORT REAGENTS

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



ACTL7B (G-2): sc-514196. Western blot analysis of ACTL7B expression in non-transfected: sc-117752 (A) and human ACTL7B transfected: sc-115085 (B) 293T whole cell lysates.



ACTL7B (K30): sc-100912. Western blot analysis of ACTL7B expression in non-transfected: sc-117752 (A) and human ACTL7B transfected: sc-115085 (B) 293T whole cell lysates.

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.