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### SZABO-SCANDIC HandelsgmbH

Quellenstraße 110, A-1100 Wien

T. +43(0)1 489 3961-0

F. +43(0)1 489 3961-7

[mail@szabo-scandic.com](mailto:mail@szabo-scandic.com)

[www.szabo-scandic.com](http://www.szabo-scandic.com)

[linkedin.com/company/szaboscandic](https://www.linkedin.com/company/szaboscandic) 

# Flightless I (m): 293T Lysate: sc-125338

## BACKGROUND

The *Drosophila melanogaster* Flightless I gene is required for normal cellularization of the syncytial blastoderm in early embryogenesis and in the structural organization of indirect flight muscle. The Flightless I protein contains an actin-binding domain with homology to the gelsolin family and is likely to be involved in actin cytoskeletal rearrangements. Flightless I also contains an N-terminal leucine-rich repeat protein-protein interaction domain. The Flightless I protein localizes predominantly to the nucleus and translocates to the cytoplasm following serum stimulation. In cells stimulated to migrate, the Flightless I protein co-localizes with  $\beta$ -tubulin- and actin-based structures. The human FLI gene is mapped within the Smith-Magenis microdeletion region of chromosome 17 at 17p11.2. Smith-Magenis syndrome is characterized by short stature, brachydactyly, developmental delay, dysmorphic features, sleep disturbances and behavioral problems.

## REFERENCES

1. Fong, K.S. and de Couet, H.G. 1999. Novel proteins interacting with the leucine-rich repeat domain of human Flightless I identified by the yeast two-hybrid system. *Genomics* 58: 146-157.
2. Campbell, H.D., Fountain, S., Young, I.G., Weitz, S., Lichter, P. and Hoheisel, J.D. 2000. Fliih, the murine homologue of the *Drosophila melanogaster* Flightless I gene: nucleotide sequence, chromosomal mapping and overlap with Lglh. *DNA Seq.* 11: 29-40.
3. Davy, D.A., Campbell, H.D., Fountain, S., de Jong, D. and Crouch, M.F. 2001. The Flightless I protein co-localizes with Actin- and microtubule-based structures in motile Swiss 3T3 fibroblasts: evidence for the involvement of PI 3-kinase and Ras-related small GTPases. *J. Cell Sci.* 114: 549-562.
4. Campbell, H.D., Fountain, S., McLennan, I.S., Berven, L.A., Crouch, M.F., Davy, D.A., Hooper, J.A., Waterford, K., Chen, K.S. and Lupski, J.R. 2002. Fliih, a gelsolin-related cytoskeletal regulator essential for early mammalian embryonic development. *Mol. Cell. Biol.* 22: 3518-3526.
5. Online Mendelian Inheritance in Man, OMIM™. 2002. Johns Hopkins University, Baltimore, MD. MIM Number: 600362. World Wide Web URL: <http://www.ncbi.nlm.nih.gov/omim/>

## CHROMOSOMAL LOCATION

Genetic locus: Flii (mouse) mapping to 11 B2.

## PRODUCT

Flightless I (m): 293T Lysate represents a lysate of mouse Flightless I transfected 293T cells and is provided as 100  $\mu$ g protein in 200  $\mu$ l 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.

## PROTOCOLS

See our web site at [www.scbt.com](http://www.scbt.com) for detailed protocols and support products.

## APPLICATIONS

Flightless I (m): 293T Lysate is suitable as a Western Blotting positive control for mouse reactive Flightless I antibodies. Recommended use: 10-20  $\mu$ l per lane.

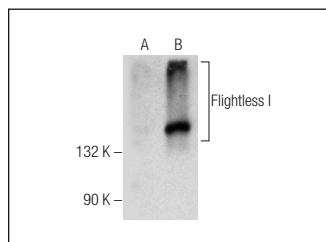
Control 293T Lysate: sc-117752 is available as a Western Blotting negative control lysate derived from non-transfected 293T cells.

Flightless I (B-6): sc-377029 is recommended as a positive control antibody for Western Blot analysis of enhanced mouse Flightless I expression in Flightless I transfected 293T cells (starting dilution 1:100, dilution range 1:100-1:1,000).

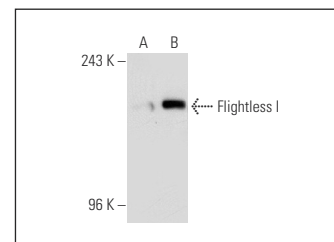
## RECOMMENDED SUPPORT REAGENTS

To ensure optimal results, the following support reagents are recommended: 1) Western Blotting: use m-IgG $\kappa$  BP-HRP: sc-516102 or m-IgG $\kappa$  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



Flightless I (B-6): sc-377029. Western blot analysis of Flightless I expression in non-transfected: sc-117752 (A) and mouse Flightless I transfected: sc-125338 (B) 293T whole cell lysates.



Flightless I (E-1): sc-55583. Western blot analysis of Flightless I expression in non-transfected: sc-117752 (A) and mouse Flightless I transfected: sc-125338 (B) 293T whole cell lysates.

## RESEARCH USE

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