

Mig-2 (m2): 293T Lysate: sc-121654

BACKGROUND

Mig-2 (mitogen-inducible gene 2) recruits migfilin to cell-matrix adhesions, while the interaction with filamin mediates the association of migfilin with Actin filaments. Together, Mig-2, migfilin and filamin define a connection between cell matrix adhesions and the Actin cytoskeleton and participate in the orchestration of Actin assembly and cell shape modulation. Mig-2 expression is transcriptionally elevated in leiomyomas and could be involved in its hormone-mediated growth of leiomyomas of the uterus. Expression of Mig-2 is ubiquitous and is found in numerous tumor tissues.

REFERENCES

1. Stossel, T.P., et al. 2003. Filling gaps in signaling to Actin cytoskeletal remodeling. *Dev. Cell* 4: 444-445.
2. Tu Y., et al. 2003. Migfilin and Mig-2 link focal adhesions to filamin and the Actin cytoskeleton and function in cell shape modulation. *Cell* 113: 37-47.
3. Kato K., et al. 2004. Expression of the mitogen-inducible gene-2 (Mig-2) is elevated in human uterine leiomyomas but not in leiomyosarcomas. *Hum. Pathol.* 35: 55-60.
4. Tseng, Y., et al. 2004. The bimodal role of filamin in controlling the architecture and mechanics of F-Actin networks. *J. Biol. Chem.* 279: 1819-1826.
5. Gkretsi, V., et al. 2005. Physical and functional association of migfilin with cell-cell adhesions. *J. Cell Sci.* 118: 697-710.
6. Pudas, R., et al. 2005. Structural basis for vertebrate filamin dimerization. *Structure* 13: 111-119.
7. Wu, C. 2005. Migfilin and its binding partners: from cell biology to human diseases. *J. Cell Sci.* 118: 659-664.
8. SWISS-PROT/TrEMBL (Q96AC1). World Wide Web URL: <http://www.expasy.ch/sprot/sprot-top.html>

CHROMOSOMAL LOCATION

Genetic locus: *Fermt2* (mouse) mapping to 14 C1.

PRODUCT

Mig-2 (m2): 293T Lysate represents a lysate of mouse Mig-2 transfected 293T cells and is provided as 100 µg protein in 200 µl SDS-PAGE buffer.

APPLICATIONS

Mig-2 (m2): 293T Lysate is suitable as a Western Blotting positive control for mouse reactive Mig-2 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.