

Mig-2 (Y-15): sc-30854

BACKGROUND

Mig-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 it is found in numerous tumor tissues.

REFERENCES

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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: PLEKHC1 (human) mapping to 14q22.1; Plekhc1 (mouse) mapping to 14 C1.

SOURCE

Mig-2 (Y-15) is an affinity purified goat polyclonal antibody raised against a peptide mapping within an internal region of Mig-2 of human origin.

PRODUCT

Each vial contains 200 µg IgG in 1.0 ml of PBS with < 0.1% sodium azide and 0.1% gelatin.

Blocking peptide available for competition studies, sc-30854 P, (100 µg peptide in 0.5 ml PBS containing < 0.1% sodium azide and 0.2% BSA).

STORAGE

Store at 4° C, ****DO NOT FREEZE****. Stable for one year from the date of shipment. Non-hazardous. No MSDS required.

APPLICATIONS

Mig-2 (Y-15) is recommended for detection of Mig-2 of mouse, rat and human origin by Western Blotting (starting dilution 1:200, dilution range 1:100-1:1000), immunoprecipitation [1-2 µg per 100-500 µg of total protein (1 ml of cell lysate)], immunofluorescence (starting dilution 1:50, dilution range 1:50-1:500) and solid phase ELISA (starting dilution 1:30, dilution range 1:30-1:3000).

Mig-2 (Y-15) is also recommended for detection of Mig-2 in additional species, including equine, canine, bovine, porcine and avian.

Suitable for use as control antibody for Mig-2 siRNA (h): sc-106786, Mig-2 siRNA (m): sc-149433, Mig-2 shRNA Plasmid (h): sc-106786-SH, Mig-2 shRNA Plasmid (m): sc-149433-SH, Mig-2 shRNA (h) Lentiviral Particles: sc-106786-V and Mig-2 shRNA (m) Lentiviral Particles: sc-149433-V.

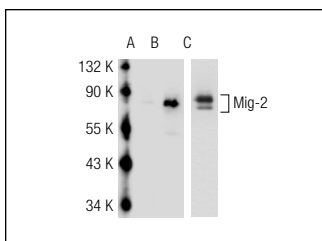
Molecular Weight of Mig-2: 78 kDa.

Positive Controls: Mig-2 (h): 293T Lysate: sc-177550 or Mig-2 (m2): 293T Lysate: sc-121654.

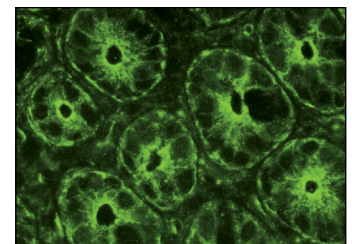
RECOMMENDED SECONDARY REAGENTS

To ensure optimal results, the following support (secondary) reagents are recommended: 1) Western Blotting: use donkey anti-goat IgG-HRP: sc-2020 (dilution range: 1:2000-1:100,000) or Cruz Marker™ compatible donkey anti-goat IgG-HRP: sc-2033 (dilution range: 1:2000-1:5000), Cruz Marker™ Molecular Weight Standards: sc-2035, TBS Blotto A Blocking Reagent: sc-2333 and Western Blotting Luminol Reagent: sc-2048. 2) Immunofluorescence: use donkey anti-goat IgG-FITC: sc-2024 (dilution range: 1:100-1:400) or donkey anti-goat IgG-TR: sc-2783 (dilution range: 1:100-1:400) with UltraCruz™ Mounting Medium: sc-24941.

DATA



Mig-2 (Y-15): sc-30854. Western blot analysis of Mig-2 expression in non-transfected: sc-117752 (A), mouse Mig-2 transfected: sc-121654 (B) and human Mig-2 transfected: sc-177550 (C) 293T whole cell lysates.



Mig-2 (Y-15): sc-30854. Immunofluorescence staining of normal mouse intestine frozen section showing cytoskeletal staining.

RESEARCH USE

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

MONOS
Satisfaction
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Try **Mig-2 (NO-A16): sc-134387**, our highly recommended monoclonal alternative to Mig-2 (Y-15).