SANTA CRUZ BIOTECHNOLOGY, INC.

Mig-2 (NQ-A16): sc-134387

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

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. Wu, C. 2005. Migfilin and its binding partners: from cell biology to human diseases. J. Cell Sci. 118: 659-664.
6. Gkretsi, V., et al. 2005. Physical and functional association of migfilin with cell-cell adhesions. J. Cell Sci. 118: 697-710.
7. Pudas, R., et al. 2005. Structural basis for vertebrate filamin dimerization. Structure 13: 111-119.
8. SWISS-PROT/TrEMBL (Q96AC1). World Wide Web URL: http://www.expasy.ch/sprot/sprot-top.html.

CHROMOSOMAL LOCATION

Genetic locus: FERMT2 (human) mapping to 14q22.1; Fermt2 (mouse) mapping to 14 C1.

SOURCE

Mig-2 (NQ-A16) is a mouse monoclonal antibody raised against amino acids 1-681 representing full length Mig-2 of human origin.

PRODUCT

Each vial contains 100 µg IgG_{2a} kappa light chain in 1.0 ml of PBS with < 0.1% sodium azide and 0.1% gelatin.

STORAGE

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

RESEARCH USE

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

APPLICATIONS

Mig-2 (NQ-A16) 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).

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.

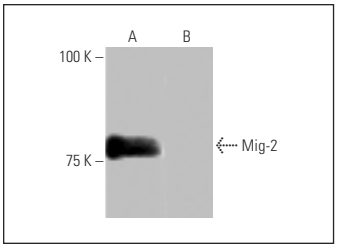
Molecular Weight of Mig-2: 78 kDa.

Positive Controls: human Mig-2 transfected 293T whole cell lysate.

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. 2) Immunoprecipitation: use Protein A/G PLUS-Agarose: sc-2003 (0.5 ml agarose/2.0 ml). 3) Immunofluorescence: use m-IgGκ BP-FITC: sc-516140 or m-IgGκ BP-PE: sc-516141 (dilution range: 1:50-1:200) with UltraCruz® Mounting Medium: sc-24941 or UltraCruz® Hard-set Mounting Medium: sc-359850.

DATA



Mig-2 (NQ-A16): sc-134387. Western blot analysis of Mig-2 expression in human Mig-2 transfected (**A**) and non-transfected (**B**) 293T whole cell lysates.

SELECT PRODUCT CITATIONS

1. Wu, J., et al. 2017. Effects of increased Kindlin-2 expression in bladder cancer stromal fibroblasts. Oncotarget 8: 50692-50703.

PROTOCOLS

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