

Fascin 1 (SPM133): sc-56531

BACKGROUND

Cell adhesion to extracellular matrix is an important physiological stimulus for organization of the actin-based cytoskeleton. Adhesion to the matrix glycoprotein Thrombospondin-1 triggers the sustained formation of F-Actin microspikes that contain the Actin-bundling protein Fascin. These structures are also implicated in cell migration, which may be an important function of Thrombospondin-1 in tissue remodeling and wound repair. Fascin bundles Actin microfilaments within dynamic cellular structures such as microspikes, stress fibers and membrane ruffles. It may serve as a prognostic factor for abnormal ovarian epithelial pathology and may be a novel target for the treatment of ovarian cancer. An Actin-bundling protein, Fascin identifies dendritic cells in the blood and in tissues.

CHROMOSOMAL LOCATION

Genetic locus: FSCN1 (human) mapping to 7p22.1; Fscn1 (mouse) mapping to 5 G2.

SOURCE

Fascin 1 (SPM133) is a mouse monoclonal antibody raised against Fascin 1 purified from HeLa cells of human origin.

PRODUCT

Each vial contains 200 µg IgG₁ 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.

PROTOCOLS

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

APPLICATIONS

Fascin 1 (SPM133) is recommended for detection of Fascin 1 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 immunohistochemistry (including paraffin-embedded sections) (starting dilution 1:50, dilution range 1:50-1:500).

Suitable for use as control antibody for Fascin 1 siRNA (h): sc-35359, Fascin 1 siRNA (m): sc-35360, Fascin 1 siRNA (r): sc-270625, Fascin 1 shRNA Plasmid (h): sc-35359-SH, Fascin 1 shRNA Plasmid (m): sc-35360-SH, Fascin 1 shRNA Plasmid (r): sc-270625-SH, Fascin 1 shRNA (h) Lentiviral Particles: sc-35359-V, Fascin 1 shRNA (m) Lentiviral Particles: sc-35360-V and Fascin 1 shRNA (r) Lentiviral Particles: sc-270625-V.

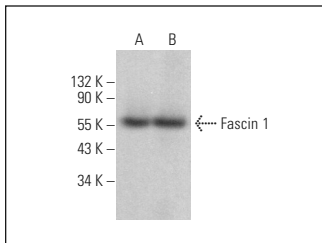
Molecular Weight of Fascin 1: 55 kDa.

Positive controls: SH-SY5Y cell lysate: sc-3812, HeLa whole cell lysate: sc-2200 or MES-SA/Dx5 cell lysate: sc-2284.

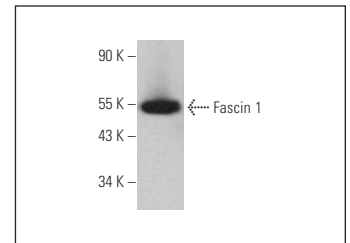
RECOMMENDED SUPPORT REAGENTS

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. 4) Immunohistochemistry: use m-IgGκ BP-HRP: sc-516102 with DAB, 50X: sc-24982 and Immunohistomount: sc-45086, or Organo/Limonene Mount: sc-45087.

DATA



Fascin 1 (SPM133): sc-56531. Western blot analysis of Fascin 1 expression in MES-SA/Dx5 (A) and HeLa (B) whole cell lysates.



Fascin 1 (SPM133): sc-56531. Western blot analysis of Fascin 1 expression in SH-SY5Y whole cell lysate.

SELECT PRODUCT CITATIONS

- Wu, Z.S., et al. 2012. Loss of miR-133a expression associated with poor survival of breast cancer and restoration of miR-133a expression inhibited breast cancer cell growth and invasion. *BMC Cancer* 12: 51.
- Ruiz de Garibay, G., et al. 2015. Lymphangioliomyomatosis biomarkers linked to lung metastatic potential and cell stemness. *PLoS ONE* 10: e0132546.
- Nunez, O., et al. 2016. Study of breast cancer incidence in patients of lymphangioliomyomatosis. *Breast Cancer Res. Treat.* 156: 195-201.
- Mateo, F., et al. 2016. Stem cell-like transcriptional reprogramming mediates metastatic resistance to mTOR inhibition. *Oncogene* 36: 2737-2749.
- Ayars, M., et al. 2017. IL2RG, identified as overexpressed by RNA-seq profiling of pancreatic intraepithelial neoplasia, mediates pancreatic cancer growth. *Oncotarget* 8: 83370-83383.

RESEARCH USE

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



See **Fascin 1 (D-10): sc-46675** for Fascin 1 antibody conjugates, including AC, HRP, FITC, PE, Alexa Fluor® 488, Alexa Fluor® 594, Alexa Fluor® 647, Alexa Fluor® 680 and Alexa Fluor® 790.