**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 remodelling and wound repair. Fascin bundles Actin microfilaments within dynamic cellular structures such as microspikes, stress fibers and membrane ruffles. Fascin could serve as a prognostic factor for abnormal ovarian epithelial pathology and could be a novel target for the treatment of ovarian cancer. Fascin, an Actin-bundling protein, 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 (D-10) is a mouse monoclonal antibody raised against amino acids 384-493 of Fascin 1 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.

Fascin 1 (D-10) is available conjugated to agarose (sc-46675 AC), 500 μg/ml, for Near-Infrared (NIR) WB, IF and FCM.

Fascin 1 (D-10) is recommended for detection of Fascin 1 of mouse, rat and human origin by Western Blotting (starting dilution 1:1000, dilution range 1:1000–1:10000), 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), immunohistochemistry (including paraffin-embedded sections) (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 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, IMR-32 cell lysate: sc-2409 or Neuro-2A whole cell lysate: sc-364185.

**STORAGE**

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

**DATA**

Fascin 1 (D-10), Alexa Fluor® 488: sc-46675 AF488

Direct fluorescent western blot analysis of Fascin 1 expression in SH-SY5Y (A), IMR-32 (B), H4 (C), Neuro-2A (D) and FANC-1 (E) whole cell lysates. Blocked with UltraCruz™ Blocking Reagent: sc-510214.

Fascin 1 (D-10), sc-46675. Immunofluorescence staining of methanol-fixed HeLa cells showing cytoplasmic localization (A). Immunoperoxidase staining of formalin-fixed, paraffin-embedded human esophagus tissue showing cytoplasmic staining of squamous epithelial cells (B).

**SELECT PRODUCT CITATIONS**


**RESEARCH USE**

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

Alexa Fluor® is a trademark of Molecular Probes, Inc., Oregon, USA.