**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 micro-spikes 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 (55K-2) 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.

Fascin 1 (55K-2) is available conjugated to agarose (sc-21743 AC), 500 µg/0.25 ml agarose in 1 ml, for IP; to HRP (sc-21743 HRP), 200 µg/ml, for WB, IHC(PE) and ELISA; to either phycoerythrin (sc-21743 PE), fluorescein (sc-21743 FITC), Alexa Fluor® 488 (sc-21743 AF488), Alexa Fluor® 546 (sc-21743 AF546), Alexa Fluor® 594 (sc-21743 AF594) or Alexa Fluor® 647 (sc-21743 AF647), 200 µg/ml, for WB (RGB), IF, IHC(PE) and FCM; and to either Alexa Fluor® 680 (sc-21743 AF680) or Alexa Fluor® 790 (sc-21743 AF790), 200 µg/ml, for Near-Infrared (NIR) WB, IF and FCM.

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**APPLICATIONS**

Fascin 1 (55K-2) 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).


Molecular Weight of Fascin 1: 55 kDa.

Positive Controls: IMR-32 cell lysate: sc-2409, SH-SY5Y cell lysate: sc-3812 or H4 cell lysate: sc-2408.

**STORAGE**

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

**DATA**

![Western blot analysis of Fascin 1 expression in SH-SY5Y (A), IMR-32 (B), H4 (C), EOC 20 (D) and Neuro-2A (E) whole cell lysates.](image)

**SELECT PRODUCT CITATIONS**


**RESEARCH USE**

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