

# Fascin 1 (h2): 293T Lysate: sc-172011

## 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.

## REFERENCES

1. Jaffe, R., DeVaughn, D. and Langhoff, E. 1998. Fascin and the differential diagnosis of childhood histiocytic lesions. *Pediatr. Dev. Pathol.* 1: 216-221.
2. Adams, J.C. and Schwartz, M.A. 2000. Stimulation of Fascin spikes by Thrombospondin 1 is mediated by the GTPases Rac and Cdc42. *J. Cell. Biol.* 150: 807-822.
3. Tubb, B.E., Bardien-Kruger, S., Kashork, C.D., Shaffer, L.G., Ramagli, L.S., Xu, J., Siciliano, M.J. and Bryan, J. 2000. Characterization of human retinal Fascin gene (FSCN2) at 17q25: close physical linkage of Fascin and cytoplasmic Actin genes. *Genomics* 65: 146-156.
4. Hu, W., McCrea, P.D., Deavers, M., Kavanagh, J.J., Kudelka, A.P. and Verschraegen, C.F. 2000. Increased expression of Fascin, motility associated protein, in cell cultures derived from ovarian cancer and in borderline and carcinomatous ovarian tumors. *Clin. Exp. Metastasis* 18: 83-88.
5. Grothey, A., Hashizume, R., Sahin, A.A. and McCrea, P.D. 2000. Fascin, an Actin-bundling protein associated with cell motility, is upregulated in hormone receptor negative breast cancer. *Br. J. Cancer* 83: 870-873.

## CHROMOSOMAL LOCATION

Genetic locus: FSCN1 (human) mapping to 7p22.1.

## PRODUCT

Fascin 1 (h2): 293T Lysate represents a lysate of human Fascin 1 transfected 293T cells and is provided as 100 µg protein in 200 µl SDS-PAGE buffer.

## RESEARCH USE

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

## APPLICATIONS

Fascin 1 (h2): 293T Lysate is suitable as a Western Blotting positive control for human reactive Fascin 1 antibodies. Recommended use: 10-20 µl per lane.

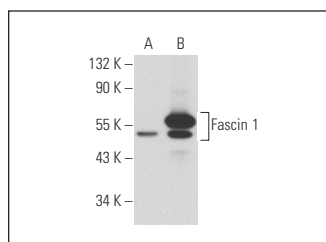
Control 293T Lysate: sc-117752 is available as a Western Blotting negative control lysate derived from non-transfected 293T cells.

Fascin 1 (D-10): sc-46675 is recommended as a positive control antibody for Western Blot analysis of enhanced human Fascin 1 expression in Fascin 1 transfected 293T cells (starting dilution 1:100, dilution range 1:100-1:1,000).

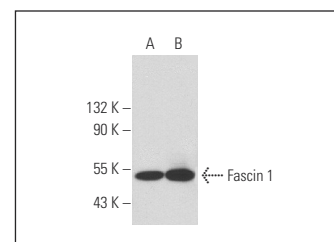
## RECOMMENDED SUPPORT REAGENTS

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.

## DATA



Fascin 1 (D-10): sc-46675. Western blot analysis of Fascin 1 expression in non-transfected: sc-117752 (A) and human Fascin 1 transfected: sc-172011 (B) 293T whole cell lysates.



Fascin 1 (55K-2): sc-21743. Western blot analysis of Fascin 1 expression in non-transfected: sc-117752 (A) and human Fascin 1 transfected: sc-172011 (B) 293T whole cell lysates.

## STORAGE

Store at -20° C. Repeated freezing and thawing should be minimized. Sample vial should be boiled once prior to use. Non-hazardous. No MSDS required.

## PROTOCOLS

See our web site at [www.scbt.com](http://www.scbt.com) for detailed protocols and support products.