Fascin (Ser-39), phospho-specific

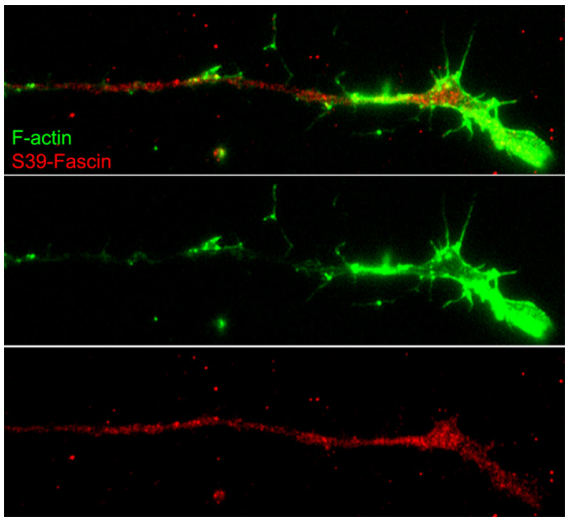
Cat. #	FP2661
Host	Rabbit Polyclonal
Size	100 µl

Background:

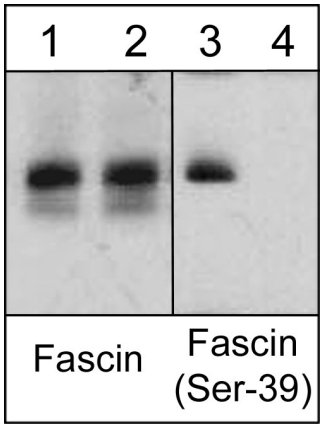
Fascin is an actin filament bundling protein localized to lamellipodia and filopodia where it has important roles in cell motility. Regulation of fascin occurs through PKC-mediated phosphorylation of Ser-39 in the F-actin binding site. Cell permeant peptides that block PKC phosphorylation of Ser-39 increase cell migration, while peptides that block fascin binding to F-actin alter lamellipodial morphology and cause aberrant cell motility. Studies using RNA interference of fascin show that fibroblasts have reduced number and abnormal morphology of filopodia, while Ser-39 phosphorylation status may determine filopodial frequency. In Drosophila neurons, fascin deficiency causes alterations in actin filaments and leads to abnormal morphology of developing neurons. Thus, fascin is a critical element of actin-based motility in various cell types.

References

Adams, J.C. (2004) Curr Opin Cell Biol. 16(5):590.
Vignjevic, D. et al. (2006) J Cell Biol. 174(6):863.
Kraft, R. et al. (2006) J Neurosci 26:8734.
Aratyn, Y.S. et al. (2007) Mol Biol Cell. 18(10):3928.



Immunocytochemical labeling of fascin phosphorylation relative to F-actin in chick E9 DRG neurons. The cells were labeled with rabbit polyclonal Fascin (Ser-39) antibody, then detected using appropriate secondary antibody (Red). Fascin (Ser -39) labeling is compared (Top) to F-actin staining (Green). (Image provided by Dr. Gianluca Gallo at Drexel University).



Western blot analysis of human HeLa cells treated with Calyculin A (100 nM) for 30 min (lanes 1 & 3) before treatment with lambda phosphatase (lanes 2 & 4). The blots were probed with anti-Fascin (clone 55K2) (lanes 1 & 2) and anti-Fascin (Ser-39) (lanes 3 & 4).

web: www.ecmbiosciences.com telephone: 859-879-2075
email: info@ecmbiosciences.com toll-free: 1-800-859-8202

ECM Biosciences

Rev 4/7/2010

Fascin (Ser-39), phospho-specific

Cat. #	FP2661
Host	Rabbit Polyclonal
Size	100 µl

Immunogen:

Fascin (Ser-39) synthetic peptide (coupled to carrier protein) corresponds to amino acids surrounding serine 39 in human fascin. This sequence has high homology to the conserved site in rat and mouse fascin, as well as to the conserved region in fascin-2, but has low homology to the conserved region in fascin-3.

Buffer and Storage:

Rabbit polyclonal, affinity-purified antibody is supplied in 100 µl phosphate-buffered saline, 50% glycerol, 1 mg/ml BSA, and 0.05% sodium azide. Store at –20°C. Do not aliquot. Stable for 1 year.

Applications:

WB	1:1000
ELISA	1:2000
ICC	1:100

End user should determine optimal dilution for their particular applications and experiments.
Western blot membranes were incubated with diluted antibody in 5% non-fat milk, PBS, 0.04% Tween20 for 1hour at room temperature.

Specificity:

This antibody was cross-adsorbed to a phospho-serine peptide before affinity purified using phosho-fascin (Ser-39) peptide (without carrier). The antibody detects a 55 kDa* band corresponding to fascin on SDS-PAGE immunoblots of mouse C2C12 and human HeLa cells treated with Calyculin A. This band is not observed after lambda phosphatase treatment. The antibody also detects fascin (Ser-39) phosphorylation in chick DRG neurons.

*All molecular weights (MW) are confirmed by comparison to Bio-Rad Rainbow Markers and to western blot mobilities of known proteins with similar MW.

Related Products:

FM2651 Fascin (clone 55K2) Mouse Monoclonal
AP1651 Actin (N-terminal Region) Rabbit Polyclonal
AP1671 Actin (Tyr-53), phospho-specific Rabbit Polyclonal
CP1131 Cofilin 1 (N-terminus) Rabbit Polyclonal
CP1151 Cofilin 1 (Ser-3), phospho-specific Rabbit Polyclonal
FX2665 phospho-Fascin (Ser-39) Peptide

web: www.ecmbiosciences.com telephone: 859-879-2075
email: info@ecmbiosciences.com toll-free: 1-800-859-8202

ECM Biosciences

Rev 4/7/2010