

Fascin (55k-2) Mouse mAb

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Applications: W, IF-IC	Reactivity: H M R Mk	Sensitivity: Endogenous	MW (kDa): 54	Source/Isotype: Mouse IgG1	UniProt ID: #Q16658	Entrez-Gene Id: 6624
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Product Usage Information**Application**

Western Blotting
Immunofluorescence (Immunocytochemistry)

Dilution

1:1000
1:50

Storage

Supplied in 10 mM sodium HEPES (pH 7.5), 150 mM NaCl, 100 µg/ml BSA, 50% glycerol and less than 0.02% sodium azide. Store at -20°C. Do not aliquot the antibody.

Specificity/Sensitivity

Fascin (55k-2) Mouse mAb recognizes endogenous levels of total fascin protein.

Source / Purification

Monoclonal antibody is produced by immunizing animals with fascin protein purified from HeLa cells.

Background

Fascin is a monomeric, globular protein that plays a central role in regulating the structure and function of the cortical actin cytoskeleton (1). Fascin promotes cross-linkage of parallel actin filaments during the formation of cell protrusions (lamellipodia and filopodia), and therefore plays an important role in regulating cell migration (2). It has been reported that fascin may also regulate filopodia formation by a mechanism independent of its actin-bundling functions (3), though less is known about this mechanism of action. Research studies have shown that increased fascin expression is associated with increased motility and invasiveness of neoplastic cells, including breast, colon, prostate, and esophageal squamous cell carcinomas (4-6). Fascin binds to the armadillo-repeat domain of β -catenin *in vitro* and *in vivo*, and has been shown to co-localize with β -catenin and cadherins at the leading edge of migratory cells (7).

Background References

1. Hoelzle, M.K. and Svitkina, T. (2012) *Mol Biol Cell* 23, 310-23.
2. Adams, J.C. (2004) *Curr Opin Cell Biol* 16, 590-6.
3. Zanet, J. et al. (2012) *J Cell Biol* 197, 477-86.
4. Hashimoto, Y. et al. (2005) *Int J Biochem Cell Biol* 37, 1787-804.
5. Stewart, C.J. et al. (2012) *J Clin Pathol* 65, 213-7.
6. Alam, H. et al. (2012) *BMC Cancer* 12, 32.
7. Tao, Y.S. et al. (1996) *J Cell Biol* 134, 1271-81.

Species Reactivity

Species reactivity is determined by testing in at least one approved application (e.g., western blot).

Western Blot Buffer

IMPORTANT: For western blots, incubate membrane with diluted primary antibody in 5% w/v nonfat dry milk, 1X TBS, 0.1% Tween® 20 at 4°C with gentle shaking, overnight.

Applications Key

W: Western Blotting **IF-IC:** Immunofluorescence (Immunocytochemistry)

Cross-Reactivity Key

H: Human **M:** Mouse **R:** Rat **Mk:** Monkey

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