

Store at
-20°C

Fascin (55K-2) Mouse mAb (IHC Formulated)

#99978



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Entrez-Gene ID #6624
UniProt ID #Q16658

rev. 08/03/15

For Research Use Only. Not For Use In Diagnostic Procedures.

Applications
IHC-P
Endogenous

Species Cross-Reactivity
H, M

Isotype
Mouse IgG1**

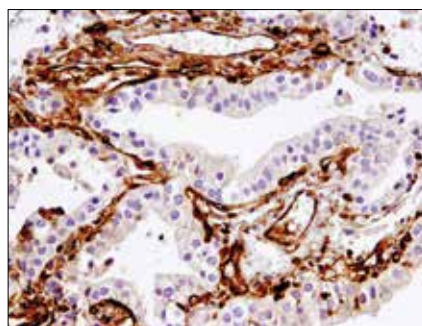
Background: Fascin is a monomeric, globular protein that plays a central role in regulating the structure and function of the cortical actin cytoskeleton (1). Fascin promotes cross-linkage of parallel actin filaments during the formation of cell protrusions (lamellipodia and filopodia), and therefore 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).

Specificity/Sensitivity: Fascin (55K-2) Mouse mAb (IHC Formulated) recognizes endogenous levels of total fascin protein.

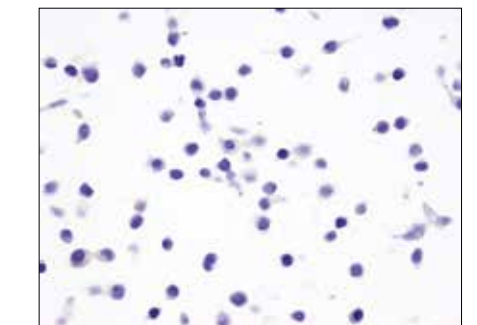
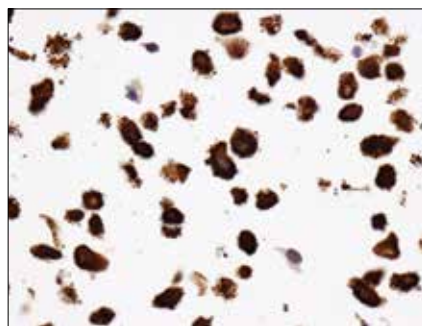
Source/Purification: Monoclonal antibody is produced by immunizing animals with fascin protein purified from HeLa cells.

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.



Immunohistochemical analysis of paraffin-embedded non-small cell lung carcinoma using Fascin (55K-2) Mouse mAb (IHC Formulated).



Immunohistochemical analysis of paraffin-embedded HeLa (upper) and HT-29 (lower) cell pellets using Fascin (55K-2) Mouse mAb (IHC Formulated).

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

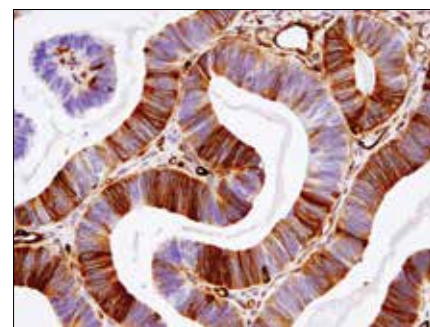
****Anti-mouse secondary antibodies must be used to detect this antibody.**

Recommended Antibody Dilutions:

Immunohistochemistry (Paraffin) 1:100†
Unmasking buffer: Citrate
Antibody diluent: SignalStain® Antibody Diluent #8112
Detection reagent: SignalStain® Boost (HRP, Mouse) #8125

†Optimal IHC dilutions determined using SignalStain® Boost IHC Detection Reagent.

For product specific protocols and a complete listing of recommended companion products please see the product web page at www.cellsignal.com



Immunohistochemical analysis of paraffin-embedded ovarian serous carcinoma using Fascin (55K-2) Mouse mAb (IHC Formulated).

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Applications: W—Western IP—Immunoprecipitation IHC—Immunohistochemistry ChIP—Chromatin Immunoprecipitation IF—Immunofluorescence F—Flow cytometry E-P—ELISA-Peptide Species Cross-Reactivity: H—human M—mouse R—rat Hm—hamster Mk—monkey Mi—mink C—chicken Dm—D. melanogaster X—Xenopus Z—zebrafish B—bovine Dg—dog Pg—pig Sc—S. cerevisiae Ce—C. elegans Hr—Horse All—all species expected Species enclosed in parentheses are predicted to react based on 100% homology.