

Fer (5D2) Mouse mAb

Orders: 877-616-CELL (2355)
orders@cellsignal.com

Support: 877-678-TECH (8324)

Web: info@cellsignal.com
cellsignal.com

3 Trask Lane | Danvers | Massachusetts | 01923 | USA

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Applications: W, W-S, IP	Reactivity: H M	Sensitivity: Endogenous	MW (kDa): 95	Source/Isotype: Mouse IgG1	UniProt ID: #P16591	Entrez-Gene Id: 2241
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Product Usage Information**Application**

Western Blotting
Simple Western™
Immunoprecipitation

Dilution

1:1000
1:50 - 1:250
1:100

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

Fer (5D2) Mouse mAb detects endogenous levels of total Fer protein. This antibody does not cross-react with other related proteins.

Source / Purification

Monoclonal antibody is produced by immunizing animals with a truncated recombinant Fer protein.

Background

Fer is a nonreceptor protein-tyrosine kinase of the Fes/Fps family. Like many other cytoplasmic tyrosine kinases, Fer contains a long amino-terminal domain, a central SH2 domain, and a carboxy-terminal kinase domain. Its amino-terminal domain is responsible for protein oligomerization as well as interaction with cytoskeletal proteins. Fer is ubiquitously expressed in a wide variety of cell and tissue types, and is localized to both cytoplasm and nucleus (1). Tyrosine kinase activity of Fer can be stimulated by growth factors and cytokines (2,3). After activation, Fer can further activate various downstream signaling components including Stat3 (3). Fer plays an important role in regulation of cell movement, oncogenesis and inflammation (4).

Background References

- Hao, Q.L. et al. (1991) *Mol Cell Biol* 11, 1180-3.
- Kim, L. and Wong, T.W. (1995) *Mol Cell Biol* 15, 4553-61.
- Zoubeidi, A. et al. (2009) *Mol Cancer Res* 7, 142-55.
- Greer, P. (2002) *Nat Rev Mol Cell Biol* 3, 278-89.

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 **W-S:** Simple Western™ **IP:** Immunoprecipitation

Cross-Reactivity Key

H: Human **M:** Mouse

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