



**Category:** Monoclonal Antibodies  
**Product Name:** Mouse Monoclonal Antibody to FER

**Catalog Number:** MAB-606020152

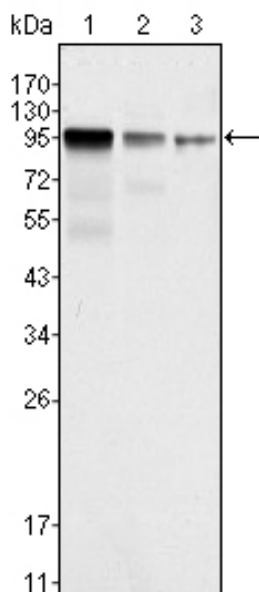


Figure 1: Western blot analysis using FER mouse mAb against NIH/3T3 (1), A549 (2) and SK-MEL-5 (3) cell lysate.

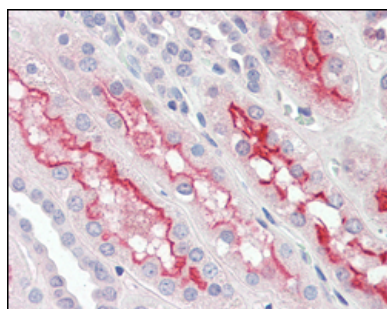


Figure 2: Immunohistochemical analysis of paraffin-embedded human kidney tissues using FER mouse mAb.

Lot#:  
Clone#: 5D2C4  
Host and isotype: Mouse IgG1  
Size: 0.1ml  
MW: 95kDa  
Aliases: TYK3; FER  
Entrez Gene: 2241  
Species reactivity: Human;  
Mouse

**Description** FER (fer tyrosine kinase) is a member of the FPS/FES family of nontransmembrane receptor tyrosine kinases, which shares a functional domain and is involved in signaling pathways through receptor tyrosine kinases (RTK) and cytokine receptors. The Fes /Fps family is distinct from c-Src, c-Abl and related nRTKs and was originally distinguished as a homolog to retroviral oncoproteins. In vivo, Fer kinase assembles into homotrimers via conserved coiled-coil domains. The N-terminal coiled-coil domains of Fer can autophosphorylate in trans, thereby regulating their cellular function through differential phosphorylation states. Growth factor exposure can induce tyrosine phosphorylation of Fer and recruitment of Fer to RTK complexes containing p85. It is expressed predominantly in mature hematopoietic cells of the granulocytic and monocytic lineage, and has been shown to be expressed in vascular endothelial cells. Fer is implicated in insulin signaling, cell-cell signaling, human prostatic proliferative diseases, and is involved in the regulation of G1 progression.

**Immunogen** Purified recombinant fragment of human FER expressed in E. Coli.

**Application** Western Blotting: 1/500 - 1/2000.  
Immunohistochemistry: 1/200 - 1/1000.  
Immunofluorescence: 1/200 - 1/1000.  
ELISA: Propose dilution 1/10000.  
Not yet tested in other applications.  
Determining optimal working dilutions by titration test.

**Formulation** Ascitic fluid containing 0.03% sodium azide.

**Storage** Store at 4iæ, for long term storage, store at -20iæ.

**Related product**

**References** 1. Li L. Cheng X. Ling HQ. Plant Mol Biol. 2004, Jan, 54(1):125-36.  
2. Girault JA. Greengard P. Arch Neurol. 2004, May, 61(5):641-4.  
3. Fan L. Di Ciano-Oliveira C. Weed SA. et al. Biochem J. 2004, Jun 1, 380(Pt 2):581-91.

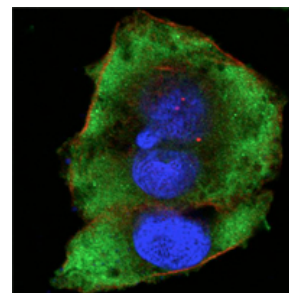


Figure 3: Confocal immunofluorescence analysis of Hela cells using FER mouse mAb (green). Red: Actin filaments have been labeled with Alexa Fluor-555 phalloidin. Blue: DRAQ5 fluorescent DNA dye.

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