

FAK (Tyr-397), phospho-specific

Cat. # FM1211

Host Mouse Monoclonal IgG1

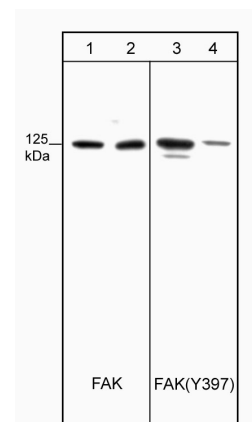
Size 100 µl

Background:

Focal adhesion kinase (FAK) is a widely expressed cytoplasmic protein tyrosine kinase involved in signal transduction pathways important for cell spreading, migration and survival. Activation of FAK by integrin clustering leads to autophosphorylation at Tyr-397, which is a binding site for Src family kinases, PI3-Kinase, and PLC γ . The recruitment of Src family kinases results in the phosphorylation of tyrosine 407, 576, and 577 in the catalytic domain, and tyrosine 871 and 925 in the carboxy-terminal region of FAK. Thus, the phosphorylation of Tyr-397 is a critical step in the activation of FAK.

References

- Cobb, B.S. et al. (1994) Mol. Cell. Biol. 14:147.
Parsons, J.T. et al. (2000) Oncogene 19:5606.
Schaller, M.D. et al. (1994) Mol. Cell. Biol. 14:1680.
Schlaepfer, D.D. et al. (1994) Nature 372:786-791.



Western blot analysis of HUVECs untreated (lanes 1 & 3) or treated with alkaline phosphatase (lanes 2 & 4). Blots were probed with mouse monoclonal anti-FAK (lanes 1 & 2) and anti-FAK (Tyr-397) (lanes 3 & 4).

Immunogen:

Clone (M121) was generated from a synthetic peptide (coupled to KLH) corresponding to amino acid residues around tyrosine 397 of human FAK. This peptide sequence has high homology to the conserved tyrosine site in rat and mouse FAK.

Applications:

WB 1:500
ELISA 1:2000

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 1 hour at room temperature.

Related Products:

- PM1071 Paxillin Mouse Monoclonal
PP1051 Paxillin (Ser-178), phospho-specific Rabbit Polyclonal
PM1021 Paxillin (Tyr-31), phospho-specific Mouse Monoclonal
FM2461 FAK (Central region) Mouse Monoclonal
SP1371 c-Src (Tyr-215), phospho-specific [Conserved site] Rabbit Polyclonal
PM2291 PYK2 (C-terminal region) Mouse Monoclonal

FOR RESEARCH USE ONLY. NOT FOR DIAGNOSTIC OR THERAPEUTIC USE.

Buffer and Storage:

Mouse monoclonal antibody purified with protein A chromatography is supplied in 100µl 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.

Specificity:

The antibody detects a 125 kDa* protein on SDS-PAGE immunoblots of untreated HUVEC cells. This phosphorylated band is greatly reduced after treatment with alkaline phosphatase.

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

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