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# Anti-FAK (Tyr-397), Phosphospecific Antibody

Catalog # AN1790

## Product Information

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|---|---|
| **Application** | WB |
| **Primary Accession** | Q05397 |
| **Host** | Mouse |
| **Clonality** | Mouse Monoclonal |
| **Isotype** | IgG1 |
| **Clone Names** | M121 |
| **Calculated MW** | 119233 |

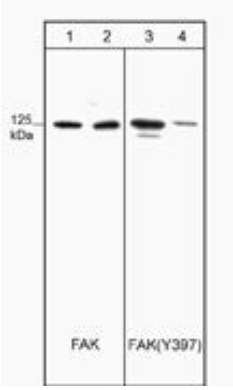
## Additional Information

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|---|---|
| **Gene ID** | 5747 |
| **Other Names** | PTK2 |
| **Target/Specificity** | 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 PLCγ. 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. |
| **Dilution** | WB~~1:1000 |
| **Storage** | Maintain refrigerated at 2-8°C for up to 6 months. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles. |
| **Precautions** | Anti-FAK (Tyr-397), Phosphospecific Antibody is for research use only and not for use in diagnostic or therapeutic procedures. |
| **Shipping** | Blue Ice |

## 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 PLCγ. 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.

## Images




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).

Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.