10320 Camino Santa Fe, Suite G
San Diego, CA 92121
Tel: 858.875.1900 Fax: 858.875.1999

Anti-FAK (Tyr-397), Phosphospecific Antibody

Catalog # AN1790

Specification

Anti-FAK (Tyr-397), Phosphospecific Antibody - Product Information

Primary Accession	Q05397
Reactivity	**Bovine, Chicken**
Host	**Mouse**
Clonality	**Mouse Monoclonal**
Isotype	**IgG1**
Calculated MW	**119233**

Anti-FAK (Tyr-397), Phosphospecific Antibody - Additional Information

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.

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

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

Provided below are standard protocols that you may find useful for product applications.

- Western Blot
- Blocking Peptides
- Dot Blot
- Immunohistochemistry
- Immunofluorescence
- Immunoprecipitation

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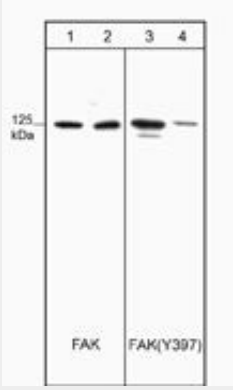
- Flow Cytomety
- Cell Culture

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

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