



FAK Mouse Monoclonal Antibody

E10-20431

Background: This gene encodes a cytoplasmic protein tyrosine kinase which is found concentrated in the focal adhesions that form between cells growing in the presence of extracellular matrix constituents. The encoded protein is a member of the FAK subfamily of protein tyrosine kinases but lacks significant sequence similarity to kinases from other subfamilies. Activation of this gene may be an important early step in cell growth and intracellular signal transduction pathways triggered in response to certain neural peptides or to cell interactions with the extracellular matrix. At least four transcript variants encoding four different isoforms have been found for this gene, but the full-length natures of only two of them have been determined. Tissue specificity. Expressed in all organs tested, in lymphoid cell lines, but most abundantly in brain.RD. Focal adhesion kinase 1 (FAK) is a ubiquitously expressed non-receptor protein tyrosine kinase that is concentrated in the focal adhesions that form between cells growing in the presence of extracellular matrix constituents. This cellular localization is directed by a "Focal Adhesion Targeting" (FAT) sequence, a 125 amino acid sequence at the C-terminus. FAK plays an important role in migration, cell spreading, differentiation, cytoskeleton protein phosphorylation, apoptosis and acceleration of the G1 to S phase transition of the cell cycle.

Catalog Number: E10-20431

Amount: 100µg/100µl

Clone Number: 10H7

Species: Mouse IgG1

MW: 119kDa

Aliases: FAK; FADK; FAK1; FRNK; pp125FAK; PTK2

Entrez Gene: 5747

Immunogen: Purified recombinant fragment of human FAK expressed in E. Coli.

Storage: Store at 4 °C ~~Store at -20 °C~~

Formulation: Ascitic fluid containing 0.03% sodium azide.

Species Reactivities: Human; Mouse

Tested Applications: WB,IHC,IF,ELISA. Not yet tested in other applications. Determining optimal working dilutions by titration test.

Application notes: WB 1/500 - 1/2000.IHC 1/200 - 1/1000,IF1/200 - 1/1000,ELISA. Propose dilution 1/10000.

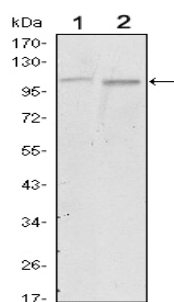


Figure 1. Western blot analysis using FAK mouse mAb against A549 (1) and NIH/3T3 (2) cell lysate.

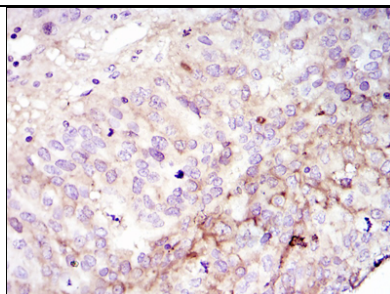


Figure 2. Immunohistochemical analysis of paraffin-embedded cervixes tumour using FAK mouse mAb with DAB staining

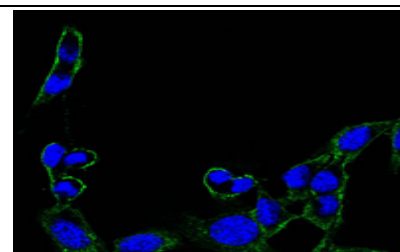


Figure 3. Immunofluorescence analysis of B16 cells using FAK mouse mAb (green). Blue. DRAQ5 fluorescent DNA dye.

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