Phospho-FAK (Tyr576/577) Antibody



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Applications: W, IP	Reactivity: H M R	Sensitivity: Endogenous	MW (kDa): 125	Source/Isotype: Rabbit	UniProt ID: #Q05397	Entrez-Gene Id: 5747
Product Usage Information		Application Western Blotting Immunoprecipitation		Dilution 1:1000 1:50		
Storage		Supplied in 10 mM sodium HEPES (pH 7.5), 150 mM NaCl, 100 μ g/ml BSA and 50% glycerol. Store at – 20°C. Do not aliquot the antibody.				
Specificity/Sensitivity		Phospho-FAK (Tyr576/577) Antibody detects endogenous levels of FAK only when phosphorylated at tyrosine 576/577. This antibody may cross-react with other activated receptor tyrosine kinases.				
Species predicted to react based on 100% sequence homology		Chicken, Xenopus				
Source / Purification		Polyclonal antibodies are produced by immunizing animals with a synthetic phosphopeptide corresponding to residues surrounding Tyr576/577 of human FAK. Antibodies are purified by protein A and peptide affinity chromatography.				
Background		Focal adhesion kinase (FAK) is a widely expressed cytoplasmic protein tyrosine kinase involved in integrin-mediated signal transduction. It plays an important role in the control of several biological processes, including cell spreading, migration, and survival (1). Activation of FAK by integrin clustering leads to autophosphorylation at Tyr397, which is a binding site for the Src family kinases PI3K and PLCv (2-5). Recruitment of Src family kinases results in the phosphorylation of Tyr407, Tyr576, and Tyr577 in the catalytic domain, and Tyr871 and Tyr925 in the carboxy-terminal region of FAK (6,7). Tyr576 and Tyr577 lie in the activation loop of the kinase domain, and mutation of these residues reduces FAK catalytic activity (6).				
Background References		 Parsons, J.T. et al. (2000) Oncogene 19, 5606-13. Schaller, M.D. et al. (1994) Mol Cell Biol 14, 1680-8. Cobb, B.S. et al. (1994) Mol Cell Biol 14, 147-55. Chen, H.C. et al. (1996) J Biol Chem 271, 26329-34. Zhang, X. et al. (1999) Proc Natl Acad Sci U S A 96, 9021-6. Calalb, M.B. et al. (1995) Mol Cell Biol 15, 954-63. Schlaepfer, D.D. et al. (1994) Nature 372, 786-791. 				
Species Reactiv	vity	Species reactivity is de	etermined by testing	ງ in at least one approve	ed application (e.g.,	western blot).
Western Blot Buffer		IMPORTANT: For western blots, incubate membrane with diluted primary antibody in 5% w/v BSA, 1X TBS, 0.1% Tween® 20 at 4°C with gentle shaking, overnight.				
Applications Key		W: Western Blotting IP: Immunoprecipitation				

Cross-Reactivity Key

H: Human M: Mouse R: Rat

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