





FAK Polyclonal Antibody

Catalog Number PA5-16676 Product data sheet

Details	
Size	500 μL
Host/Isotope	Rabbit / IgG
Class	Polyclonal
Туре	Antibody
Immunogen	Recombinant protein corresponding to aa 853-1052 from the C-terminus of human FAK
Conjugate	Unconjugated
Form	Liquid
Concentration	1 mg/mL
Storage Conditions	4° C

Species Reactivity	
Species reactivity	Amphibian, Dog, Human, Mouse, Rat
Published species	Rat, Human, Mouse
Tested Applications	Dilution *
Western Blot (WB)	5-10 μg/mL
Immunocytochemistry (ICC/IF)	Assay-dependent
Published Applications	
Western Blot (WB)	See 4 publications below
Immunocytochemistry (ICC/IF)	See 1 publications below
*O	

^{*} Suggested working dilutions are given as a guide only. It is recommended that the user titrate the product for use in their own experiment using appropriate negative and positive controls.

Product specific information

PA5-16676 targets FAK-Focal Adhesion Kinase in IF and WB applications and shows reactivity with Amphibian, Canine, Human, mouse, and Rat samples. The PA5-16676 immunogen is recombinant protein corresponding to aa 853-1052 from the C-terminus of human FAK.

Background/Target Information

Focal Adhesion Kinase (FAK) is a 125 kDa non-receptor protein tyrosine kinase that acts as a substrate for Src and is a key element of integrin signaling. FAK plays an important role in cell spreading, differentiation, migration, cell death, and acceleration of the G1 to S phase transition of the cell cycle. Tyrosine 397 is the autophosphorylation site of FAK, and involved in its initial activation. This phosphorylated site binds Src family SH2 domains and the p85 subunit of PI3-Kinase, and activates cell migration and invasion. FAK has a central catalytic domain and a C-terminal tail that localizes it to focal adhesions, which are sites where cells attach to the extracellular matrix via surface integrin receptors. Increased FAK tyrosine phosphorylation occurs upon integrin engagement with fibronectin. Adhesion of murine NIH3T3 fibroblasts to fibronectin promotes association of the Grb2 adapter protein and c-Src PTK with FAK in vivo, and also results in activation of the ERK2 MAP kinase. In v-Src-transformed NIH3T3, the association of v-Src, Grb2, and Sos with FAK is independent of cell adhesion to fibronectin. In vitro the Grb2 SH2 domain binds directly to tyrosine-phosphorylated FAK, and the binding site has been identified as Tyr925 by site directed mutagenesis. Several transcript variants encoding different isoforms have been found for the FAK gene, but the full-length natures of only three of them have been determined.

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Product Images For FAK Polyclonal Antibody

kDa 202133-FAK 7141Western Blot Human Cells-34

FAK Antibody (PA5-16676) in WB

Western blot of FAK-Focal Adhesion Kinase using FAK-Focal Adhesion Kinase Polyclonal Antibody (Product # PA5-16676) on IMR-5 Cells.

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4 Western Blot Referen	ces
Species / Dilution	Summary
	PA5-16676 was used in western blot to investigate the role of the NH2-terminal region of focal adhesion kinase FAK in the affinity IgE receptor-induced secretion in mast cells
Rat / Not Cited	The Journal of biological chemistry (2000; 275: 28269) "The NH2-terminal region of focal adhesion kinase reconstitutes high affinity IgE receptor-induced secretion in mast cells." Author(s):Vial D,Okazaki H,Siraganian RP PubMed Article URL:http://dx.doi.org/10.1074/jbc.M002842200
Human / Not Cited	PA5-16676 was used in western blot to study the modulation of cell polarity and migration and the roles played by VANGL2 and MMP14
	Journal of cell science (2012; 125: 2141) "VANGL2 regulates membrane trafficking of MMP14 to control cell polarity and migration." Author(s):Williams BB,Cantrell VA,Mundell NA,Bennett AC,Quick RE,Jessen JR PubMed Article URL:http://dx.doi.org/10.1242/jcs.097964
Human / 1:1000	PA5-16676 was used in western blot to investigate the consequences of osteonectin expression in melanoma cells
	International journal of cancer (2007; 121: 2653) "Osteonectin downregulates E-cadherin, induces osteopontin and focal adhesion kinase activity stimulating an invasive melanoma phenotype." Author(s):Smit DJ,Gardiner BB,Sturm RA PubMed Article URL:http://dx.doi.org/10.1002/ijc.23039
	PA5-16676 was used in western blot to investigate the effect of expression of mutant SWI/SNF on cell shape and cell attachment
Mouse / Not Cited	Journal of cell science (2004; 117: 5847) "Inducible changes in cell size and attachment area due to expression of a mutant SWI/SNF chromatin remodeling enzyme." Author(s):Hill DA,Chiosea S,Jamaluddin S,Roy K,Fischer AH,Boyd DD,Nickerson JA,Imbalzano AN PubMed Article URL:http://dx.doi.org/10.1242/jcs.01502
1 Immunocytochemistr	y References
Species / Dilution	Summary
	PA5-16676 was used in immunocytochemistry to investigate the role of integrins iun the adhesion of retinal pigment epithelium on aged human Bruch membrane
Human / 1:100	Experimental eye research (2008; 86: 189) "Culture-induced increase in alpha integrin subunit expression in retinal pigment epithelium is important for improved resurfacing of aged human Bruch's membrane." Author(s):Gullapalli VK,Sugino IK,Zarbin MA

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