

PRODUCT INFORMATION SHEET

Mouse Moi	Monoclonal Antibody to FAK							
	Format: PURE	RUO	REF	IQP-1462P	Volume:	0.1ml		
	Description							
Clone	10H7							
Isotype	Mouse IgG1							
Specificity	FAK							
Alternative names	FAK; FADK; FAK1; FRNK; pp125FAK; PTK2							
Species	Human, Mouse							
Immunogen	Purified recombinant fragment of human FAK expressed in E. Coli.							
Mw	119kDa							
Format	Ascitic fluid containing 0.03% sodium azide.							
	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. It associates with several different signaling proteins such as Src-family PTKs, p130Cas, Shc, Grb2, PI 3-kinase, and paxillin. This enables FAK to function within a network of integrin-stimulated signaling pathways leading to the activation of targets such as the ERK and JNK/mitogen-activated protein kinase pathways. FAK is also linked to oncogenes at biochemical and functional levels. Increased expression and/or activity of FAK in various tumors has been correlated with enhanced migration and invasiveness of human tumor cells in addition to promoting increased cell proliferation.							
Applications	Western Bloting: 1/500 - 1/2000.Immunohistochemistry: 1/200 - 1/1000.Immunofluorescence: 1/200 - 1/1000.ELISA: Propose dilution 1/10000.Not yet tested in other applications.Determining optimal working dilutions by titration test.							
Limitations	 Conjugates with brighter fluorochromes, like PE and APC, will have a greater separation that those with dyes like FITC and CyQ. When populations overlap, the percentage of positive causing a selected marker can be affected by the choice of fluorescent label. Use of monoclonal antibodies in patient treatment can interfere with antigen target recogni by this reagent. This should be taken into account when samples are analyzed from patient treated in this fashion. IQ Products has not characterized the effect of the presence of therapeutic antibodies on the performance of this reagent. Reagents can be used in different combinations, therefore laboratories need to become familiar performance characteristics of each antibody in relation with the combined markers normal and abnormal samples. Reagent data performance is based on EDTA-treated blood. Reagent performance can be affected by the use of other anticoagulants. 					e of positive cells target recognitio d from patients esence of to become bined markers ir		

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Handling and Storage

Antibodies are supplied in 0.01 M sodium phosphate, 0.15 M NaCl; pH 7.3, 0.03% sodiumazide (NaN3) or as ascetic fluid containing 0.03% sodiumazide. Store the vials at 2-8 °C for a maximum of 2 weeks and store at -20°C for longer term storage. Monoclonal antibodies should be protected from prolonged exposure to light when conjugated with fluorochromes. Reagents are stable for the period shown on the vial label when stored properly.

Warranty Products sold hereunder are warranted only to conform to the quantity and contents stated on the label at the time of delivery to the customer. There are no warranties, expressed or implied, which extend beyond the description on the label of the product. IQ Products is not liable for property damage, personal injury, or economic loss caused by the product.

Characterization

To ensure consistently high-quality reagents, each batch of monoclonal antibody is tested for conformance with characteristics of a standard reagent. Representative flow cytometric data is included in this data sheet.

References 1. Madeleine Toutant, Jeanne-Marie Studler, et al.Mol. Cell. Biol., Nov 2002; 22: 7731 - 7743. 2. Danshan Huang, Anthony T. Cheung, et al. J. Biol. Chem, May 2002; 277: 18151 – 18160.

Explanation of used symbols

TÌI REF ♥	Consult instructions for use Catalogue number Sufficient for
\triangle	Caution, consult accompanying document
*	Keep away from (sun)light
\$	Biological risks
*	Temperature limitation (°C)
RUO	For Research Use Only
LOT	Batch code OFICINT TIUO RESCENCE
2	Use by yyyy-mm-dd
	Manufacturer
EC REP	Authorized Representative in the European Community
CE	Conformité Européenne (European Conformity)

P F C A	PURE FITC R-PE CyQ APC PerCP	Label - tandem purified material FITC PE PE-Cy5.18	Ex -max (nm) - 488 488, 532 488, 532 595, 633, 635, 647 488, 532	Em -max (nm) - 519 578 667 660 678
PC	PerCP		488, 532	678
PCC	PerCP-Cy5.5		488, 532	695

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Warning All products contain sodiumazide. This chemical is poisonous and hazardous. Handling should be done by trained staff only.