

For Research Use Only

# FAK Monoclonal antibody

Catalog Number: 66258-1-Ig

Featured Product

37 Publications



## Basic Information

<b>Catalog Number:</b> 66258-1-Ig	<b>GenBank Accession Number:</b> BC028733	<b>Purification Method:</b> Protein A purification
<b>Size:</b> 150ul, Concentration: 2592 µg/ml by Nanodrop and 1427 µg/ml by Bradford method using BSA as the standard;	<b>GeneID (NCBI):</b> 5747	<b>CloneNo.:</b> 2C5B9
<b>Source:</b> Mouse	<b>UNIPROT ID:</b> Q05397	<b>Recommended Dilutions:</b> WB 1:5000-1:50000 IHC 1:50-1:500 IF 1:200-1:800
<b>Isotype:</b> IgG2c	<b>Full Name:</b> PTK2 protein tyrosine kinase 2	
<b>Immunogen Catalog Number:</b> AG17966	<b>Calculated MW:</b> 1052 aa, 119 kDa	
	<b>Observed MW:</b> 110 kDa	

## Applications

### Tested Applications:

WB, IF, IHC, ELISA

### Cited Applications:

WB, IP, IF, IHC

### Species Specificity:

human, mouse, rat

### Cited Species:

human, rat, mouse

**Note-IHC: suggested antigen retrieval with TE buffer pH 9.0; (\*) Alternatively, antigen retrieval may be performed with citrate buffer pH 6.0**

### Positive Controls:

**WB:** hTERT-RPE1 cells, human testis tissue, MCF-7 cells, HCT 116 cells, NIH/3T3 cells, RAW 264.7 cells, ROS1728 cells, HepG2 cells, HeLa cells, Jurkat cells, K-562 cells, pig brain tissue, rabbit brain tissue, rat brain tissue, mouse brain tissue

**IHC:** human breast cancer tissue,

**IF:** HUVEC cells, A549 cells

## Background Information

FAK (Focal adhesion kinase 1) is also named as FAK1, FADK, pp125FAK, FAK and belongs to the protein kinase superfamily. It is a critical tyrosine kinase that modulates cell adhesion, migration, proliferation and survival in response to extracellular signals (PMID:19664602). It also acts as a pivotal signal 'integrator', controlling and coordinating cellular responses that include cell migration, survival, proliferation and, epithelial tissue repair after DNA damage (PMID:20966971). This protein has some isoforms produced by alternative promoter usage and alternative splicing, and the range of the molecular weights are 100-120kD and 40-60kD.

## Notable Publications

Author	Pubmed ID	Journal	Application
Jiao Wu	34517345	Aging (Albany NY)	WB
Olga Alekhina	27789711	J Biol Chem	WB
Andreas Ritter	31640218	Cells	IF

## Storage

### Storage:

Store at -20°C. Stable for one year after shipment.

### Storage Buffer:

PBS with 0.02% sodium azide and 50% glycerol pH 7.3.

Aliquoting is unnecessary for -20°C storage

\*\*\* 20ul sizes contain 0.1% BSA

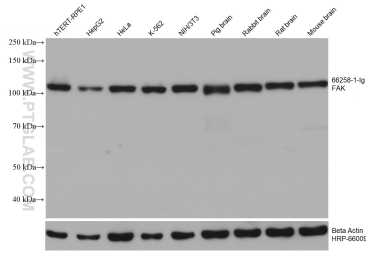
For technical support and original validation data for this product please contact:

T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or 1(312) 455-8498 (outside USA)

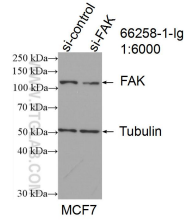
E: proteintech@ptglab.com  
W: ptglab.com

This product is exclusively available under Proteintech Group brand and is not available to purchase from any other manufacturer.

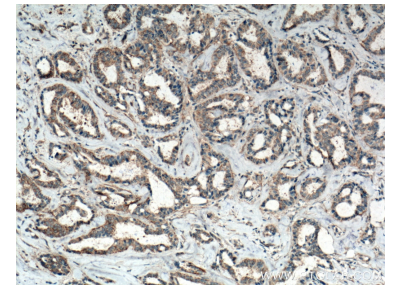
## Selected Validation Data



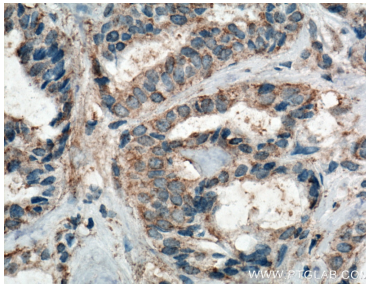
Various lysates were subjected to SDS PAGE followed by western blot with 66258-1-Ig (FAK antibody) at dilution of 1:20000 incubated at room temperature for 1.5 hours. The membrane was stripped and reblotted with HRP-conjugated Beta Actin Monoclonal antibody (HRP-66009) as loading control.



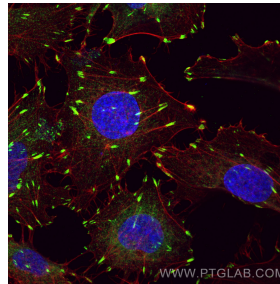
WB result of FAK antibody (66258-1-Ig; 1:6000; incubated at room temperature for 1.5 hours) with sh-Control and sh-FAK transfected MCF-7 cells.



Immunohistochemical analysis of paraffin-embedded human breast cancer tissue slide using 66258-1-Ig (FAK antibody) at dilution of 1:200 (under 10x lens. Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunohistochemical analysis of paraffin-embedded human breast cancer tissue slide using 66258-1-Ig (FAK antibody) at dilution of 1:200 (under 40x lens. Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunofluorescent analysis of (4% PFA) fixed HUVEC cells using FAK antibody (66258-1-Ig, Clone: 2C5B9) at dilution of 1:400 and CoraLite@488-Conjugated AffiniPure Goat Anti-Mouse IgG(H+L), CL594-Phalloidin (red).