

For Research Use Only

# FAK Polyclonal antibody

Catalog Number: 12636-1-AP

Featured Product

81 Publications



## Basic Information

### Catalog Number:

12636-1-AP

### Size:

150ul, Concentration: 550 µg/ml by Nanodrop and 533 µg/ml by Bradford method using BSA as the standard;

### Source:

Rabbit

### Isotype:

IgG

### Immunogen Catalog Number:

AG3331

### GenBank Accession Number:

BC028733

### GeneID (NCBI):

5747

### Full Name:

PTK2 protein tyrosine kinase 2

### Calculated MW:

1052 aa, 119 kDa

### Observed MW:

110 kDa

### Purification Method:

Antigen affinity purification

### Recommended Dilutions:

WB 1:500-1:2000

IP 0.5-4.0 µg for 1.0-3.0 mg of total

protein lysate

IHC 1:20-1:200

IF 1:400-1:1600

## Applications

### Tested Applications:

IF, IHC, IP, WB, ELISA

### Cited Applications:

CoIP, IF, IHC, WB

### Species Specificity:

human, mouse, rat

### Cited Species:

human, chicken, rat, mouse, monkey

### Positive Controls:

WB: MCF7 cells, A431 cells, HEK-293 cells, HeLa cells, Jurkat cells, MCF-7 cells, NIH/3T3 cells

IP: HeLa cells,

IHC: human gliomas tissue, human breast cancer tissue

IF: HUVEC cells, A549 cells

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

## 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
Yinhang Wang	31570694	Cell Death Dis	WB
Jing Zhao	32986180	Biotechnol Lett	WB
Lianhong Yin	29033837	Front Pharmacol	WB

## 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

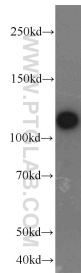
For technical support and original validation data for this product please contact:

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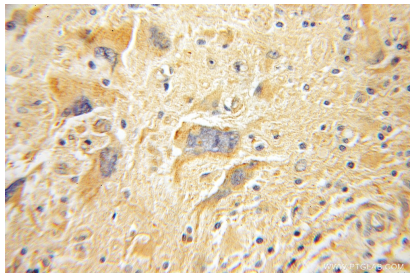
E: [proteintech@ptglab.com](mailto:proteintech@ptglab.com)  
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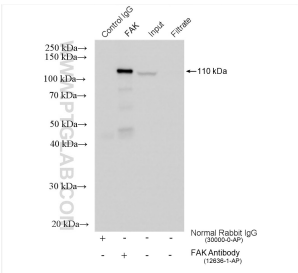
Selected Validation Data



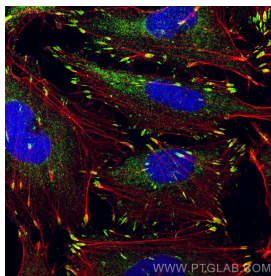
MCF7 cells were subjected to SDS PAGE followed by western blot with 12636-1-AP (FAK antibody) at dilution of 1:2000 incubated at room temperature for 1.5 hours.



Immunohistochemical analysis of paraffin-embedded human gliomas using 12636-1-AP (FAK antibody) at dilution of 1:100 (under 10x lens).



IP result of anti-FAK(IP:12636-1-AP, 4ug; Detection:12636-1-AP 1:20000) with HeLa cells lysate 1320 ug.



Immunofluorescent analysis of (-20°C Methanol) fixed HUVEC cells using FAK antibody (12636-1-AP) at dilution of 1:800 and CoraLite®488-Conjugated AffiniPure Goat Anti-Rabbit IgG(H+L), CoraLite®594 Beta Actin antibody (CL594-66009, Clone: 2D4H5, red).