

For Research Use Only

FAK Polyclonal antibody

Catalog Number: 12636-1-AP

Featured Product

110 Publications



Basic Information

Catalog Number:

12636-1-AP

Concentration:

700 ug/ml

Source:

Rabbit

Isotype:

IgG

Immunogen Catalog Number:

AG3331

GenBank Accession Number:

BC028733

GeneID (NCBI):

5747

UNIPROT ID:

Q05397

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: 1:20000-1:100000

IP: 0.5-4.0 ug for 1.0-3.0 mg of total protein lysate

IHC: 1:600-1:2400

IF/ICC: 1:400-1:1600

Applications

Tested Applications:

WB, IHC, IF/ICC, IP, ELISA

Cited Applications:

WB, IHC, IF, CoIP

Species Specificity:

human, mouse, rat

Cited Species:

human, mouse, rat, monkey, chicken

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

IP: HeLa cells,

IHC: Hepatocellular carcinoma tissue, human breast cancer tissue

IF/ICC: 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
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, pH7.3

Aliquoting is unnecessary for -20°C storage

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

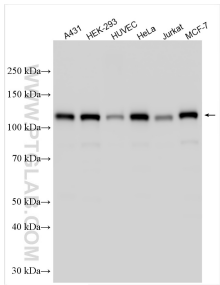
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E: Proteintech-CN@ptglab.com

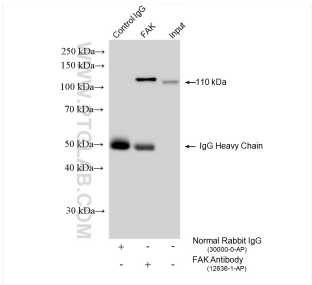
W: ptgcn.com

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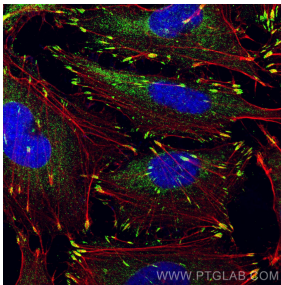
Selected Validation Data



Various lysates were subjected to SDS PAGE followed by western blot with 12636-1-AP (FAK antibody) at dilution of 1:70000 incubated at room temperature for 1.5 hours.



IP result of anti-FAK (IP:12636-1-AP, 4ug; Detection:12636-1-AP 1:30000) with HeLa cells lysate 1600 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).



Immunohistochemical analysis of paraffin-embedded Hepatocellular carcinoma tissue slide using 12636-1-AP (FAK antibody) at dilution of 1:600 (under 20x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).