For Research Use Only

FAK Monoclonal antibody

Catalog Number:66258-1-Ig Featured Product 50 Publications

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Basic Information

Catalog Number:
66258-1-Ig

Size:
150ul , Concentration: 2592 ug/ml by Nanodrop and 1427 ug/ml by Bradford method using BSA as the standard;

Source:
Mouse

Isotype:
IgG2c

Immunogen Catalog Number:
AG17966

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:
Protein A purification

CloneNo.:
2C5B9

Recommended Dilutions:
WB 1:5000-1:50000
IHC 1:50-1:500
IF/ICC 1:200-1:800

Applications

Tested Applications:
WB, IHC, IF/ICC, ELISA

Cited Applications:
WB, IHC, IF, IP, CoIP

Species Specificity:
human, mouse, rat

Cited Species:
human, mouse, rat

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/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
Jiao Wu	34517345	Aging (Albany NY)	WB
Olga Alekhina	27789711	J Biol Chem	WB
Andreas Ritter	31640218	Cells	IF

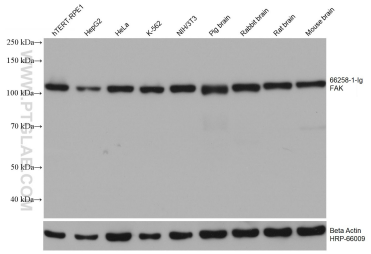
Storage

Storage:
Store at -20°C. Stable for one year after shipment.
Storage Buffer:
PBS with 0.02% sodium azide and 50% glycerol, pH7.3
Aliquoting is unnecessary for -20°C storage

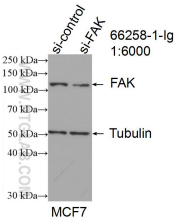
*** 20ul sizes contain 0.1% BSA

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

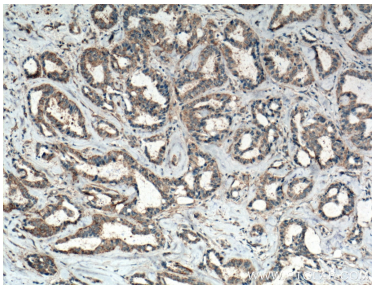
Selected Validation Data



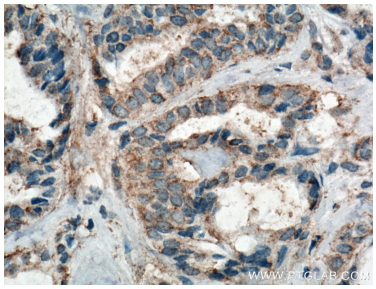
Various lysates were subjected to SDS PAGE followed by western blot with 66258-1-Ig (FAK antibody) at dilution of 1:20000 incubated at room temperature for 1.5 hours. The membrane was stripped and reblotted with HRP-conjugated Beta Actin Monoclonal antibody (HRP-66009) as loading control.



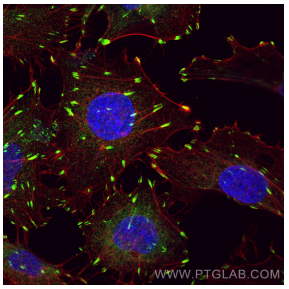
WB result of FAK antibody (66258-1-Ig; 1:6000; incubated at room temperature for 1.5 hours) with sh-Control and sh-FAK transfected MCF-7 cells.



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 Goat Anti-Mouse IgG(H+L), CL594-Phalloidin (red).