Product Datasheet

FAK (Phospho-Y397) Rabbit mAb

Catalog No: #13383

Package Size: #13383-1 50ul #13383-2 100ul

Orders: order@signalwayantibody.com
Support: tech@signalwayantibody.com

Description

Product Name	FAK (Phospho-Y397) Rabbit mAb
Host Species	Rabbit
Clonality	Monoclonal
Clone No.	SC54-07
Purification	ProA affinity purified
Applications	WB;ICC/IF;IHC
Species Reactivity	Human;Mouse;Rat
Immunogen Description	Synthetic phospho-peptide corresponding to residues surrounding Tyr397 of human FAK.
Conjugates	Unconjugated
Other Names	FADK 1 antibody FADK antibody FAK related non kinase polypeptide antibody FAK1 antibody FAK1_HUMAN antibody Focal adhesion kinase 1 antibody Focal adhesion Kinase antibody Focal adhesion kinase isoform FAK Del33 antibody Focal adhesion kinase related nonkinase antibody FRNK antibody p125FAK antibody pp125FAK antibody PPP1R71 antibody Protein phosphatase 1 regulatory subunit 71 antibody Protein tyrosine kinase 2 antibody Protein-tyrosine kinase 2 antibody Ptk2 antibody PTK2 protein tyrosine kinase 2 antibody
Accession No.	Swiss-Prot#:Q05397
Calculated MW	119 kDa
SDS-PAGE MW	119 kDa
Formulation	1*TBS (pH7.4), 1%BSA, 40%Glycerol. Preservative: 0.05% Sodium Azide.
Storage	Store at -20°C

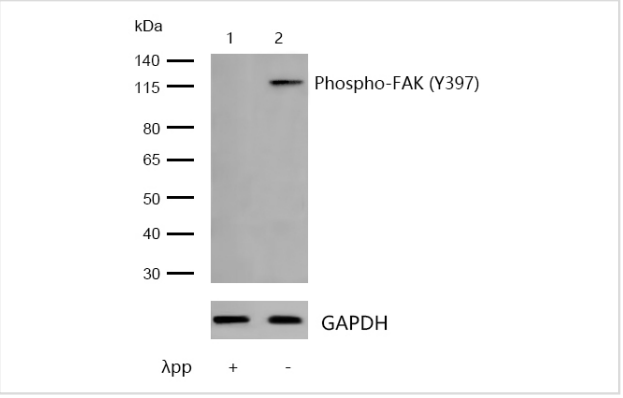
Application Details

WB: 1:500-1:2000

ICC/IF: 1:50-1:200

IHC: 1:50-1:200

Images



All lanes : FAK (Phospho-Y397) Rabbit mAb at 1/1k dilution

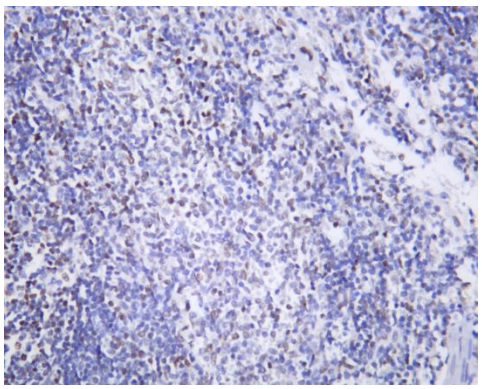
Lane 1 : Hela whole cell lysates treated with λpp for 1 hourLane 2 : Hela whole cell lysates

Lysates/proteins at 20 μg per lane.

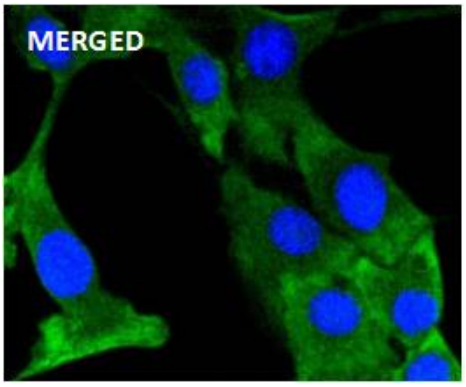
Secondary
All lanes : Goat Anti-Rabbit IgG H&L (HRP) at 1/20000 dilution

Predicted band size: 119 kDa
Observed band size: 119 kDa

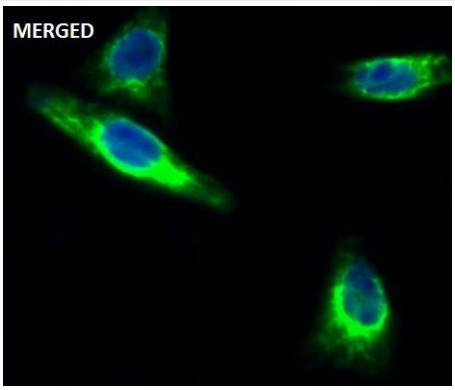
Exposure time: 10 seconds



Formalin-fixed;paraffin-embedded rat spleen tissue stained for FAK (Phospho-Y397) using 13383 at 1/100 dilution in immunohistochemical analysis.



Immunocytochemistry/ Immunofluorescence FAK (Phospho-Y397) antibody (13383)
ICC/IF staining of FAK (Phospho-Y397) in NIH/3T3 cells. Cells were fixed with 4% Paraformaldehyde permeabilized with 0.1% Triton X-100.
Samples were incubated with 13383 at a working dilution of 1/100. The secondary antibody was Alexa FluorB 488 goat anti rabbit;used at a dilution of 1/500.
Nuclei were counterstained with DAPI.



Immunocytochemistry/ Immunofluorescence FAK (Phospho-Y397) antibody (13383)
ICC/IF staining of FAK (Phospho-Y397) in Hela cells. Cells were fixed with 4% Paraformaldehyde permeabilized with 0.1% Triton X-100.
Samples were incubated with 13383 at a working dilution of 1/100. The secondary antibody was Alexa FluorB 488 goat anti rabbit;used at a dilution of 1/500.
Nuclei were counterstained with DAPI.

Background

Activation of integrins in the extracellular matrix (ECM) of eukaryotic cells promotes the formation of membrane adhesion complexes, known as focal adhesions, which can include cytoskeletal proteins and protein tyrosine kinases, such as focal adhesion kinase (FAK). Phosphorylation events occurring within focal adhesions influence numerous processes that include mitogenic signaling, cell survival, and cell motility. FAK is a non-receptor tyrosine kinase that is ubiquitously expressed and highly conserved between species. FAK is recruited by Integrin clusters and variably phosphorylated depending on the effector molecules present in the focal adhesion. Phosphorylation of FAK Tyr 397 decreases during serum starvation, contact inhibition, and cell cycle arrest, all conditions under which activating FAK Tyr 407 phosphorylation increases.

References

1. Kuo SW et al. Regulation of the fate of human mesenchymal stem cells by mechanical and stereo-topographical cues provided by silicon nanowires. Biomaterials 33:5013-22 (2012).
2. Lu H et al. IGFBP2/FAK pathway is causally associated with dasatinib resistance in non-small cell lung cancer cells. Mol Cancer Ther 12:2864-73 (2013).

Published Papers

Byun Youngro;Hwang Hae Hyun;Jeong Hee Jeong;Kim Sung Wan;Lee Dong Yun;Okano Teruo;Yun Sangwu el at., Anticancer Effect of

Heparin-Taurocholate Conjugate on Orthotopically Induced Exocrine and Endocrine Pancreatic Cancer, , (2021)
PMID:34830928

Note: This product is for in vitro research use only and is not intended for use in humans or animals.