Anti-Phospho-FAK (Tyr397) Rabbit mAb

Purified Recombinant Rabbit Monoclonal Antibody

Catalog # R015024

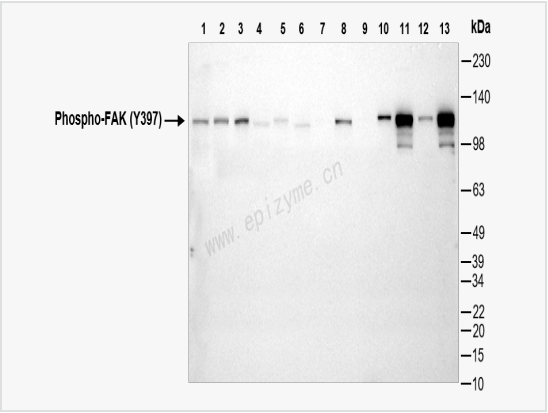
Product Information

Application	WB, IHC-P/IF (Tissue-P), IF (Cell)/ICC, ELISA
Reactivity	Human, Mouse, Rat
Dilution	WB 1:1,000~1:2,000; IHC-P 1:100~1:200; IF 1:100~1:200
Host	Rabbit
Clonality	Monoclonal
Clone No.	79E12A96
Isotype	IgG
Label	Unconjugated
Immunogen	A synthesized peptide derived from human Phospho-FAK (Y397)
Format	Affinity purified monoclonal antibody supplied in PBS with 0.01% sodium azide and 50% glycerol, pH 7.3.
Storage	Shipped on wet ice. Store at -20°C. Stable for 24 months from date of receipt. Aliquoting is unnecessary for -20°C storage.
Precautions	Anti-Phospho-FAK (Tyr397) Rabbit mAb [79E12A96] is for research use only and not for use in diagnostic or therapeutic procedures.

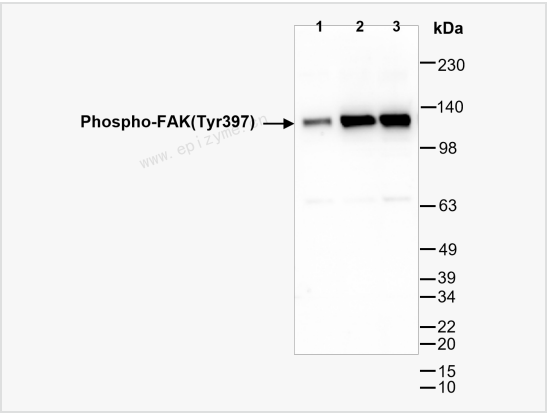
Protein Information

Synonyms	FADK 1, FADK, FAK related non kinase polypeptide, FAK1, FAK1_HUMAN, Focal adhesion kinase 1, Focal adhesion Kinase, Focal adhesion kinase isoform FAK Del33, Focal adhesion kinase related nonkinase, FRNK, p125FAK, pp125FAK, PPP1R71, Protein phosphatase 1 regulatory subunit 71, Protein tyrosine kinase 2, Protein-tyrosine kinase 2, Ptk2, PTK2 protein tyrosine kinase 2.
Calculated MW	Calculated MW: 119 kDa; Observed MW: 119 kDa
Uniprot ID	Q05397
Gene ID	5747
Background	This gene encodes a cytoplasmic protein tyrosine kinase which is found concentrated in the focal adhesions that form between cells growing in the presence of extracellular matrix constituents. The encoded protein is a member of the FAK subfamily of protein tyrosine kinases but lacks significant sequence similarity to kinases from other subfamilies. Activation of this gene may be an important early step in cell growth and intracellular signal transduction pathways triggered in response to certain neural peptides or to cell interactions with the extracellular matrix. Several transcript variants encoding different isoforms have been found for this gene. [provided by RefSeq, Jun 2017]
Cellular Location	Cell junction > focal adhesion. Cell membrane. Constituent of focal adhesions.
Tissue Location	Expressed in all organs tested, in lymphoid cell lines, but most abundantly in brain.

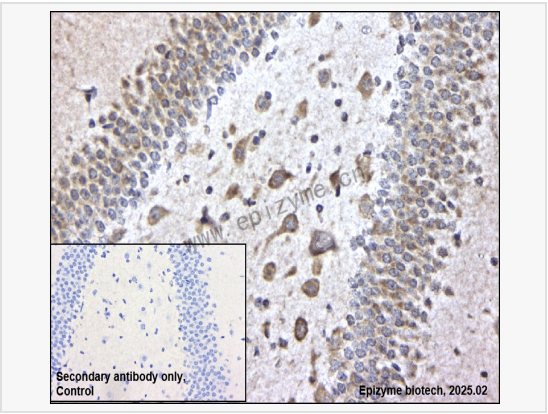
Validation Images



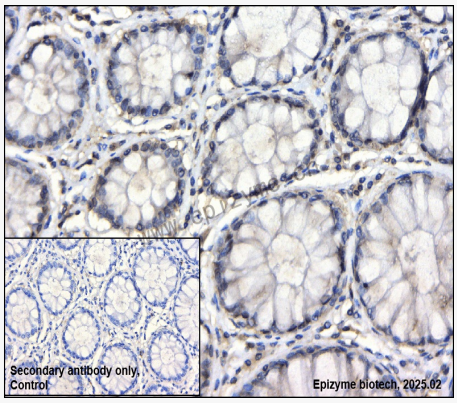
Western Blot - Anti-Phospho-FAK (Tyr397) Rabbit mAb [79E12A96]
All lanes: R015024 at 1:1,000 dilution
Lane 1 : HeLa (Human cervix adenocarcinoma epithelial cell) whole cell lysates
Lane 2 : HepG2 (Human hepatocarcinoma epithelial cell) whole cell lysates
Lane 3 : HCT116 (Human colorectal carcinoma epithelial cell) whole cell lysates
Lane 4 : SW620 (Human colorectal carcinoma epithelial cell) whole cell lysates
Lane 5 : Caco2 (Human colorectal adenocarcinoma epithelial cell) whole cell lysates
Lane 6 : Jurkat (Human T lymphocytic leukemia cell) whole cell lysates
Lane 7 : 293T (Human embryonic kidney cell) whole cell lysates
Lane 8 : SCC-9 (Human tongue squamous carcinoma epithelial cell) whole cell lysates
Lane 9 : Mouse heart whole tissue lysates
Lane 10 : Mouse brain whole tissue lysates
Lane 11 : C2C12 (Mouse myoblasts epithelial cell) whole cell lysates
Lane 12 : Raw264.7 (Mouse mononuclear macrophage leukemia cell) whole cell lysates
Lane 13 : PC-12 (Rat adrenal pheochromocytoma epithelial cell) whole cell lysates
Lysates/proteins at 10 µg per lane.
Secondary antibody: Goat Anti-Rabbit IgG (H+L), HRP Conjugated (Cat. No. LF102) at 1:5,000 dilution
Predicted band size: 119 kDa
Observed band size: 119 kDa
Developed using the ECL technique (Cat. No. SQ201).



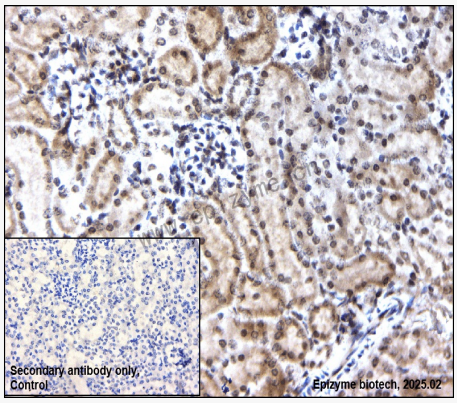
Western Blot - Anti-Phospho-FAK (Tyr397) Rabbit mAb [79E12A96]
All lanes: R015024 at 1:1,000 dilution
Lane 1: HCT116 (Human colorectal carcinoma epithelial cell) whole cell lysates
Lane 2: HCT116 cells serum-starved overnight and then stimulated with serum for 2 h whole cell lyastes
Lane 3: HCT116 cells serum-starved overnight and then stimulated with serum for 4 h whole cell lyastes
Lysates/proteins at 10 µg per lane.
Secondary antibody: Goat Anti-Rabbit IgG (H+L), HRP Conjugated (Cat. No. LF102) at 1:5,000 dilution
Predicted band size: 119 kDa
Observed band size: 119 kDa
Developed using the ECL technique (Cat. No. SQ201).



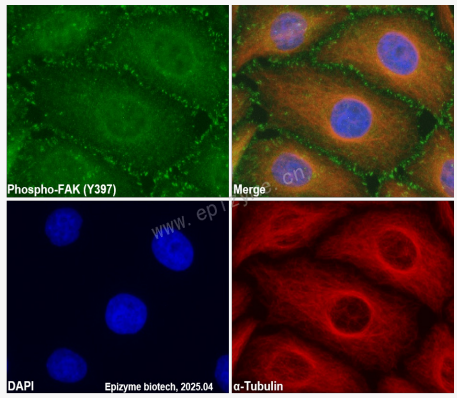
Immunohistochemistry - Anti-Phospho-FAK (Tyr397) Rabbit mAb [79E12A96]
Sample: Paraformaldehyde-fixed, paraffin embedded human rat brain tissue
Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0) for 30 mins.
Primary antibody: R015024 at 1:200 dilution
Secondary antibody: Goat Anti-Rabbit IgG (H+L), HRP conjugated at 1:1,000 dilution
DAB was used as the chromogen.
Counter stained with hematoxylin.
Positive/negative staining were presented.
Only the secondary antibody was used as the negative control.



Immunohistochemistry - Anti-Phospho-FAK (Tyr397) Rabbit mAb [79E12A96]
Sample: Paraformaldehyde-fixed, paraffin embedded human rectal adenocarcinoma tissue
Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0) for 30 mins.
Primary antibody: R015024 at 1:200 dilution
Secondary antibody: Goat Anti-Rabbit IgG (H+L), HRP conjugated at 1:1,000 dilution
DAB was used as the chromogen.
Counter stained with hematoxylin.
Positive/negative staining were presented.
Only the secondary antibody was used as the negative control.



Immunohistochemistry - Anti-Phospho-FAK (Tyr397) Rabbit mAb [79E12A96]
Sample: Paraformaldehyde-fixed, paraffin embedded mouse kidney tissue
Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0) for 30 mins.
Primary antibody: R015024 at 1:200 dilution
Secondary antibody: Goat Anti-Rabbit IgG (H+L), HRP conjugated at 1:1,000 dilution
DAB was used as the chromogen.
Counter stained with hematoxylin.
Positive/negative staining were presented.
Only the secondary antibody was used as the negative control.



Immunofluorescence - Anti-Phospho-FAK (Tyr397) Rabbit mAb [79E12A96]
Sample: HeLa cells
The cells were fixed with 4% paraformaldehyde (10 min), permeabilized with 0.5% Triton X-100 for 10 minutes and then blocked with 5% BSA in 0.1% PBS-Tween for 0.5 hours.
Primary antibodies: R015024 at 1:100 dilution and α-tubulin Mouse Monoclonal Antibody (Cat. No. LF209) at 1:100 dilution
Secondary antibodies: Goat anti-Rabbit (488) at 1:1,000 dilution (shown in green) and Goat anti-Mouse (555) at 1:1,000 dilution (shown in red)
Nuclei were stained with DAPI (shown in blue).