
Phospho-FAK (Tyr397) Rabbit pAb

Catalog Number: bs-3159R

Target Protein: Phospho-FAK (Tyr397)

Concentration: 1mg/ml

Form: Liquid

Host: Rabbit

Clonality: Polyclonal

Isotype: IgG

Applications: WB (1:500-2000), IHC-P (1:100-500), IHC-F (1:100-500), IF (1:100-500), ICC/IF (1:50)

Reactivity: Human, Mouse, Rat (predicted:Rabbit, Cow, Chicken, Dog, Horse)

Predicted MW: 116 kDa

Subcellular: Cell membrane ,Cytoplasm ,Nucleus

Locations:

Entrez Gene: 5747

Swiss Prot: Q05397

Source: KLH conjugated Synthesised phosphopeptide derived from human FAK around the phosphorylation site of Tyr397: DD(p-Y)AE.

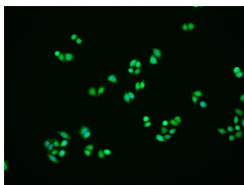
Purification: affinity purified by Protein A

Storage: 0.01M TBS (pH7.4) with 1% BSA, 0.02% Proclin300 and 50% Glycerol.

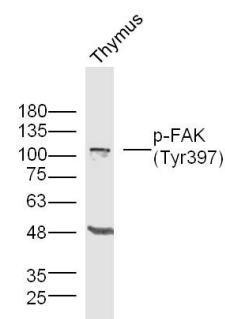
Shipped at 4°C. Store at -20°C for one year. Avoid repeated freeze/thaw cycles.

Background: Non-receptor protein-tyrosine kinase implicated in signaling pathways involved in cell motility, proliferation and apoptosis. Activated by tyrosine-phosphorylation in response to either integrin clustering induced by cell adhesion or antibody cross-linking, or via G-protein coupled receptor (GPCR) occupancy by ligands such as bombesin or lysophosphatidic acid, or via LDL receptor occupancy. Plays a potential role in oncogenic transformations resulting in increased kinase activity. [SUBCELLULAR LOCATION] Cell junction, focal adhesion. Cell membrane; Peripheral membrane protein; Cytoplasmic side. Note=Constituent of focal adhesions.

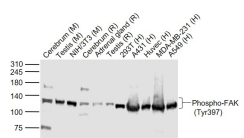
VALIDATION IMAGES



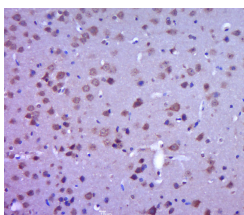
Hela cell; 4% Paraformaldehyde-fixed; Triton X-100 at room temperature for 20 min; Blocking buffer (normal goat serum, C-0005) at 37°C for 20 min; Antibody incubation with (Phospho-FAK (Tyr397)) polyclonal Antibody, Unconjugated (bs-3159R) 1:50, 90 minutes at 37°C; followed by a conjugated Goat Anti-Rabbit IgG antibody at 37°C for 90 minutes, DAPI (blue, C02-04002) was used to stain the cell nuclei.



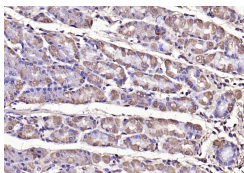
Sample: Thymus (Mouse) Lysate at 40 ug Primary: Anti- p-FAK (Tyr397) (bs-3159R) at 1/300 dilution
Secondary: IRDye800CW Goat Anti-Rabbit IgG at 1/20000 dilution Predicted band size: 116 kD Observed band size: 116 kD



Sample: Lane 1: Cerebrum (Mouse) Lysate at 40 ug Lane 2: Testis (Mouse) Lysate at 40 ug Lane 3: NIH/3T3 (Mouse) Cell Lysate at 30 ug Lane 4: Cerebrum (Rat) Lysate at 40 ug Lane 5: Adrenal gland (Rat) Lysate at 40 ug Lane 6: Testis (Rat) Lysate at 40 ug Lane 7: 293T (Human) Cell Lysate at 30 ug Lane 8: A431 (Human) Cell Lysate at 30 ug Lane 9: Huvec (Human) Cell Lysate at 30 ug Lane 10: MDA-MB-231 (Human) Cell Lysate at 30 ug Lane 11: A549 (Human) Cell Lysate at 30 ug Primary: Anti-Phospho-FAK (Tyr397) (bs-3159R) at 1/1000 dilution Secondary: IRDye800CW Goat Anti-Rabbit IgG at 1/20000 dilution Predicted band size: 125 kD Observed band size: 125 kD



Paraformaldehyde-fixed, paraffin embedded (mouse brain tissue); Antigen retrieval by boiling in sodium citrate buffer (pH6.0) for 15min; Block endogenous peroxidase by 3% hydrogen peroxide for 20 minutes; Blocking buffer (normal goat serum) at 37°C for 30min; Antibody incubation with (P-FAK (Tyr397)) Polyclonal Antibody, Unconjugated (bs-3159R) at 1:400 overnight at 4°C, followed by a conjugated secondary (sp-0023) for 20 minutes and DAB staining.



Paraformaldehyde-fixed, paraffin embedded (human gastric carcinoma); Antigen retrieval by boiling in sodium citrate buffer (pH6.0) for 15min; Block endogenous peroxidase by 3% hydrogen peroxide for 20 minutes; Blocking buffer (normal goat serum) at 37°C for 30min; Antibody incubation with (Phospho-FAK (Tyr397)) Polyclonal Antibody, Unconjugated (bs-3159R) at 1:200 overnight at 4°C, followed by operating according to SP Kit(Rabbit) (sp-0023) instructions and DAB staining.

PRODUCT SPECIFIC PUBLICATIONS

[IF=15.1] Wenzhao Wang. et al. 3D printing of personalized magnesium composite bone tissue engineering scaffold for bone and angiogenesis regeneration. CHEM ENG J. 2024 Mar;484:149444 WB ; Human . 10.1016/j.cej.2024.149444

[IF=8.2] Dating Pei. et al. Modulation of macrophage polarization by secondary cross-linked hyaluronan-dopamine hydrogels. INT J BIOL MACROMOL. 2024 Jun;270:132417 WB ; Mouse . 38759857

[IF=7.59] Zhenyin Chen. et al. Dynamic stiffening collagen-coated substrate enhances osteogenic differentiation of mesenchymal stem cells through integrin $\alpha 2 \beta 1$. BIOMATER SCI-UK. 2023 May; WB,IF,ICC ; Rat . 37233200

[IF=7.328] Hu Li. et al. Injectable recombinant human collagen-derived material with high cell adhesion activity limits adverse remodelling and improves pelvic floor function in pelvic floor dysfunction rats. Mat Sci Eng C-Mater. 2022 Feb;112715 IHC ; Rat . 10.1016/j.msec.2022.112715

[IF=5.6] Hongting Li. et al. Discovery of novel 2,4-diarylaminopyrimidine hydrazone derivatives as potent anti-thyroid cancer agents

capable of inhibiting FAK. J ENZYM INHIB MED CH. 2024 Nov 19 WB ; Human . 39560175