

**bs-3159R****[ Primary Antibody ]**

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## Phospho-FAK (Tyr397) Rabbit pAb

### — DATASHEET —

**Host:** Rabbit**Isotype:** IgG**Clonality:** Polyclonal**GeneID:** 5747**SWISS:** Q05397**Target:** Phospho-FAK (Tyr397)**Immunogen:** KLH conjugated Synthesised phosphopeptide derived from human FAK around the phosphorylation site of Tyr397: DD(p-Y)AE.**Purification:** affinity purified by Protein A**Concentration:** 1mg/ml**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.

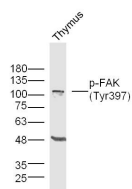
**Applications:** WB (1:500-2000)**IHC-P** (1:100-500)**IHC-F** (1:100-500)**IF** (1:100-500)**ICC/IF** (1:50)

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

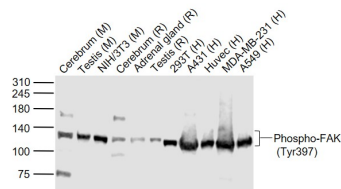
**Predicted**  
**MW.:** 116 kDa

**Subcellular** Cell membrane ,Cytoplasm  
**Location:** ,Nucleus

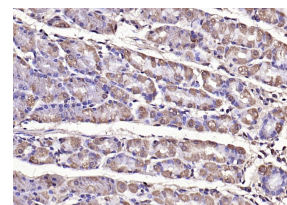
### — VALIDATION IMAGES —



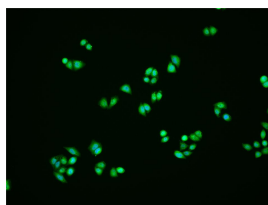
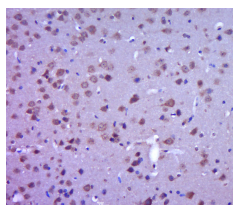
Sample: Thymus (Mouse) Lysate at 40 ug  
Primary: Anti- p-FAK (Tyr397) (bs-3159R) at 1/300 dilution  
Secondary: IRDye800CW Goat Anti-Rabbit IgG at 1/20000 dilution  
Predicted band size: 116 kD  
Observed band size: 116 kD



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 (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.



Important Note: This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.

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.

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.

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## — SELECTED CITATIONS —

- **[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