bs-20735R

[Primary Antibody]

FAK Rabbit pAb

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DATASHEET

Host: Rabbit **Isotype:** IgG

Clonality: Polyclonal

GeneID: 5747 **SWISS:** Q05397

Target: FAK

Immunogen: KLH conjugated synthetic peptide derived from human FAK: 131-230/1052.

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.

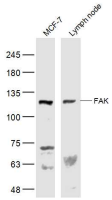
Applications: **WB** (1:500-2000)
IHC-P (1:100-500)
IHC-F (1:100-500)
IF (1:100-500)

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

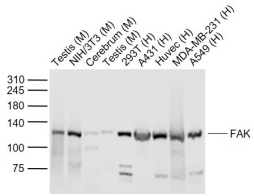
Predicted MW.: 116 kDa

Subcellular Location: Cell membrane ,Cytoplasm ,Nucleus

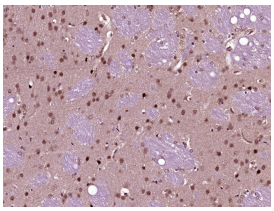
VALIDATION IMAGES



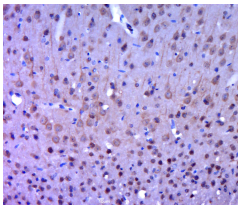
Sample: MCF-7(Human) Cell Lysate at 30 ug Lymph node (Mouse) Lysate at 40 ug Primary: Anti-FAK (bs-20735R) at 1/300 dilution Secondary: IRDye800CW Goat Anti-Rabbit IgG at 1/20000 dilution Predicted band size: 116 kD Observed band size: 116 kD



Sample: Lane 1: Testis (Mouse) Lysate at 40 ug Lane 2: NIH/3T3 (Mouse) Cell Lysate at 30 ug Lane 3: Cerebrum (Mouse) Lysate at 40 ug Lane 4: Testis (Mouse) Lysate at 40 ug Lane 5: 293T (Human) Cell Lysate at 30 ug Lane 6: A431 (Human) Cell Lysate at 30 ug Lane 7: Huvec (Human) Cell Lysate at 30 ug Lane 8: MDA-MB-231 (Human) Cell Lysate at 30 ug Lane 9: A549 (Human) Cell Lysate at 30 ug Primary: Anti-FAK (bs-20735R) 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 (Rat brain); 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 (FAK) Polyclonal Antibody, Unconjugated (bs-20735R) at 1:400 overnight at 4°C, followed by operating according to SP Kit(Rabbit) (sp-0023) instructionsand DAB staining.



Paraformaldehyde-fixed, paraffin embedded

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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=8.724]** Yong Tang. et al. Phosphorylation inhibition of protein-tyrosine phosphatase 1B tyrosine-152 induces bone regeneration coupled with angiogenesis for bone tissue engineering. Bioact Mater. 2021 Jul;6:2039 WB ;Mouse. 33511306
- **[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=7.242]** Yong Tang. et al. Laminin alpha 4 promotes bone regeneration by facilitating cell adhesion and vascularization. Acta Biomater. 2021 Mar;: WB ;Mouse. 33711525
- **[IF=4.2]** Qi Zhang. et al.Transcriptomic Insights Into Electroacupuncture Using Different Acupoint Combinations to Repair Mucosal Inflammatory Injury Induced in a Rat Model of Gastric Ulcer.journal of inflammation research.2025 Mar 11:18:3399-3417. Western blot ;Rat. 40093956