

Anti-Phospho-FAK (S722) Antibody [4G1]

RT1216



Product Type:	Mouse monoclonal IgG1, primary antibodies
Species reactivity:	Human, Mouse, Rat
Applications:	WB, IP, IF, IHC-P
Molecular Wt:	125 kDa
Clone number:	4G1

Description: 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.

Immunogen: peptide

Subcellular location: Cytoplasm, Cell junction, Cell membrane, Nucleus

Database links: SwissProt: Q05397 Human

Recommended Dilutions:

WB	1:100-1:1,000
IP	1-2 µg per 100-500 µg of total protein(1 ml of cell lysate)
IF	1:50-1:500
IHC-P	1:50-1:500

Storage Buffer: 1.0 ml of PBS with < 0.1% sodium azide and 0.1% gelatin.

Storage Instruction: Store at +4 °C

Purity: Protein A affinity purified.

Hangzhou Huaan Biotechnology Co., Ltd.

Orders:0086-571-88062880

Technical:0086-571-89986345

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Images

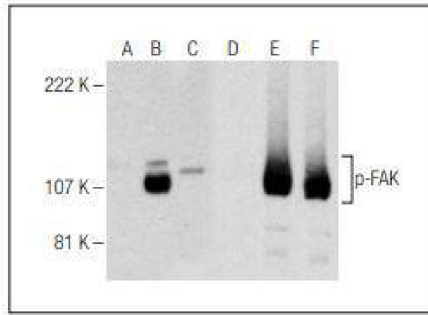


Fig1: A. Western blot analysis of FAK phosphorylation in non-transfected:(A,D), untreated human FAK transfected:(B,E) and lambda protein phosphatase treated human FAK transfected:(C,F) 293T whole cell lysates. Antibodies tested include p-FAK (A-12): (A,B,C) and FAK (C-903):(D,E,F).

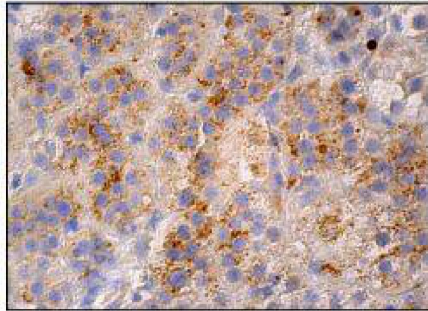


Fig2: B. Immunoperoxidase staining of formalin fixed, paraffin-embedded human adrenal gland tissue showing cytoplasmic staining of glandular cells.

Note: All products are "FOR RESEARCH USE ONLY AND ARE NOT INTENDED FOR DIAGNOSTIC OR THERAPEUTIC USE".

Background References

1. Schaller, M.D., et al. 1994. Autophosphorylation of the focal adhesion-associated protein tyrosine kinase, pp 125 FAK, directs SH2-dependent binding of pp60src. *Mol. Cell. Biol.* 14: 1680-1688.
2. Schlaepfer, D.D., et al. 1996. Evidence for in vivo phosphorylation of the GRB2 SH2-domain binding site on focal adhesion kinase by Src-family pro-te-in-tyrosine kinases. *Mol. Cell. Biol.* 16: 5623-5633.

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