

#11545

## FAK (phospho-Tyr576/Tyr577) Antibody

**Catalog:** #11545-1 50µl **Orders:** [order@signalwayantibody.com](mailto:order@signalwayantibody.com)  
#11545-2 100µl **Support:** [tech@signalwayantibody.com](mailto:tech@signalwayantibody.com)  
**Storage:** Store at -20°C/1 year **Web:** [www.signalwayantibody.com](http://www.signalwayantibody.com)



Application	Species Reactivity	Source	Molecular Wt.
WB IF	Human	Rabbit Polyconal Ab	125KD

**Description:** Antibodies were produced by immunizing rabbits with synthetic phosphopeptide and KLH conjugates. Antibodies were purified by affinity-chromatography using epitope-specific phosphopeptide. Non-phospho specific antibodies were removed by chromatography using non-phosphopeptide.

**Specificity:** The antibody detects endogenous level of FAK only when phosphorylated at tyrosine 576/577.

**Immunogen:** Peptide sequence around phosphorylation site of tyrosine 576/tyrosine 577 (S-T-Y(p)-Y(p)-K-A) derived from Human FAK.

**Formulation:** Supplied at 1.0mg/mL in phosphate buffered saline (without Mg<sup>2+</sup> and Ca<sup>2+</sup>), pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol.

**Synonyms:** ?FADK 1 FAK1 PTK2

**Accession No.:** Swiss-Prot#: Q05397 NCBI Gene#: 5747  
NCBI Protein#: NP\_005598.3

**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.

### References:

Parsons, J.T. et al. (2000) *Oncogene* 19, 5606-5613  
Schaller, M.D. et al. (1994) *Mol. Cell. Biol.* 14, 1680-1688.  
Cobb, B.S. et al. (1994) *Mol. Cell. Biol.* 14, 147-155.  
Chen, H.C. et al. (1996) *J. Biol. Chem.* 271, 26329-26334.

### Citation:

Z Zheng, Y Wei, et al. Surface Characterization and Cytocompatibility of Three Chitosan/Polycation Composite Membranes for Guided Bone Regeneration. *Journal of Biomaterials Applications*, 24:209-229. (2008)

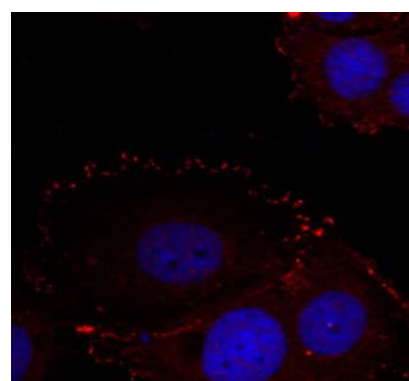
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**Related Pathway:** Akt, MAPK, Cytoskeletal/Adhesion, Kinase/Phosphatases

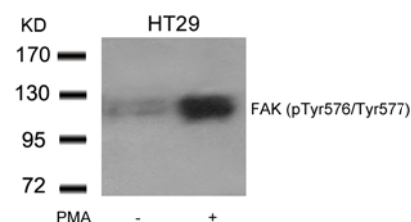
**Note:** For western blotting, incubate membrane with diluted antibody in 5% nonfat milk, 1X TBS, 0.1% Tween-20 at 4°C with gentle shaking, overnight.

### Recommended Dilutions:

Western blotting 1:500~1:1000  
Immunofluorescence 1:100~1:200



Immunofluorescence staining of methanol-fixed HeLa cells using FAK (phospho-Tyr576/Tyr577) Antibody #11545.



Western blot analysis of extracts from HT29 cells untreated or treated with PMA using FAK (phospho-Tyr576/Tyr577) Antibody #11545.