

**Product Name:** FAK (phospho Tyr861) Rabbit Polyclonal Antibody  
**Catalog #:** APRab04662

---

## Summary

<b>Production Name</b>	FAK (phospho Tyr861) Rabbit Polyclonal Antibody
<b>Description</b>	Rabbit Polyclonal Antibody
<b>Host</b>	Rabbit
<b>Application</b>	ELISA, WB,
<b>Reactivity</b>	Human, Mouse, Rat, Monkey

## Performance

<b>Conjugation</b>	Unconjugated
<b>Modification</b>	Phospho Antibody
<b>Isotype</b>	IgG
<b>Clonality</b>	Polyclonal
<b>Form</b>	Liquid
<b>Storage</b>	Store at 4°C short term. Aliquot and store at -20°C long term. Avoid freeze/thaw cycles.
<b>Buffer</b>	Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% New type preservative N.
<b>Purification</b>	Affinity purification

## Immunogen

<b>Gene Name</b>	PTK2 PTK2; FAK; FAK1; Focal adhesion kinase 1; FADK 1; Focal adhesion kinase-related
<b>Alternative Names</b>	nonkinase; FRNK; Protein phosphatase 1 regulatory subunit 71; PPP1R71; Protein-tyrosine kinase 2; p125FAK; pp125FAK
<b>Gene ID</b>	5747.0
<b>SwissProt ID</b>	Q05397. The antiserum was produced against synthesized peptide derived from human FAK around the phosphorylation site of Tyr861. AA range: 828-877

## Application

<b>Dilution Ratio</b>	WB 1:500 - 1:2000. ELISA: 1:20000. Not yet tested in other applications.
<b>Molecular Weight</b>	125kD

---

**Product Name: FAK (phospho Tyr861) Rabbit Polyclonal Antibody**  
**Catalog #: APRab04662**

---

## Background

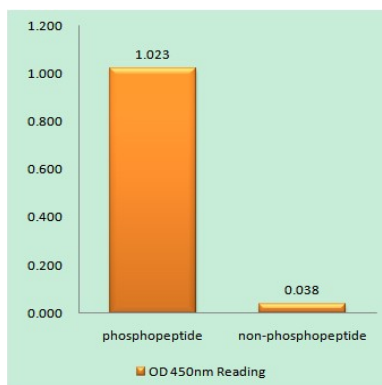
protein tyrosine kinase 2(PTK2) Homo sapiens This gene encodes a cytoplasmic protein tyrosine kinase which is found concentrated in the focal adhesions that form between cells growing in the presence of extracellular matrix constituents. The encoded protein is a member of the FAK subfamily of protein tyrosine kinases but lacks significant sequence similarity to kinases from other subfamilies. Activation of this gene may be an important early step in cell growth and intracellular signal transduction pathways triggered in response to certain neural peptides or to cell interactions with the extracellular matrix. Several transcript variants encoding different isoforms have been found for this gene, but the full-length natures of only four of them have been determined. [provided by RefSeq, Oct 2015],catalytic activity:ATP + a [protein]-L-tyrosine = ADP + a [protein]-L-tyrosine phosphate.,domain:The carboxy-terminal region is the site of focal adhesion targeting (FAT) sequence which mediates the localization of FAK1 to focal adhesions.,domain:The first Pro-rich domain interacts with the SH3 domain of CRK-associated substrate (BCAR1) and CASL.,function: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.,PTM:Phosphorylated on 6 tyrosine residues upon activation.,similarity:Belongs to the protein kinase superfamily. Tyr protein kinase family.,similarity:Belongs to the protein kinase superfamily. Tyr protein kinase family. FAK subfamily.,similarity:Contains 1 FERM domain.,similarity:Contains 1 protein kinase domain.,subcellular location:Constituent of focal adhesions.,subunit:Interacts with CAS family members and with GIT1, SORBS1 and BCAR3. Interacts with RGNEF and SHB (By similarity). Interacts with TGFB111.,tissue specificity:Expressed in all organs tested, in lymphoid cell lines, but most abundantly in brain.,

## Research Area

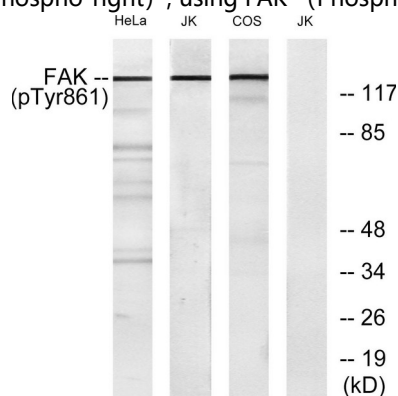
ErbB\_HER;Chemokine;Axon guidance;VEGF;Focal adhesion;Leukocyte transendothelial migration;Regulates Actin and Cytoskeleton;Pathways in cancer;Small cell lung cancer;

## Image Data

**Product Name: FAK (phospho Tyr861) Rabbit Polyclonal Antibody**  
**Catalog #: APRab04662**



Enzyme-Linked Immunosorbent Assay (Phospho-ELISA) for Immunogen Phosphopeptide (Phospho-left) and Non-Phosphopeptide (Phospho-right), using FAK (Phospho-Tyr861) Antibody



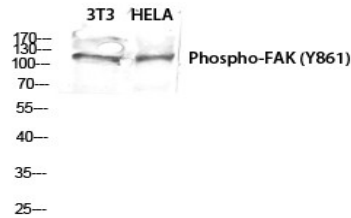
Western blot analysis of lysates from HeLa cells, Jurkat cells and COS cells, using FAK (Phospho-Tyr861) Antibody. The lane on the right is blocked with the phospho peptide.



Western Blot analysis of various cells using Phospho-FAK (Y861) Polyclonal Antibody diluted at 1: 1000

**Product Name: FAK (phospho Tyr861) Rabbit Polyclonal Antibody**  
**Catalog #: APRab04662**

---



Western blot analysis of 3T3 HELA lysis using Phospho-FAK (Y861) antibody. Antibody was diluted at 1:1000

### **Note**

For research use only.