FAK (Phospho Tyr861) Rabbit pAb

CatalogNo: YP0108

Key Features

Host Species	Reactivity	Applications
• Rabbit	• Human,Mouse,Rat,Monkey	• WB,ELISA

MW	Isotype
• 125kD (Observed)	• IgG

Storage

Storage*	-15°C to -25°C/1 year (Do not lower than -25°C)
Formulation	Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% sodium azide.

Recommended Dilution Ratios

WB 1:500-1:2000
ELISA 1:20000
Not yet tested in other applications.

Basic Information

Clonality	Polyclonal

Immunogen Information

Immunogen	The antiserum was produced against synthesized peptide derived from human FAK around the phosphorylation site of Tyr861. AA range:828-877
Specificity	Phospho-FAK (Y861) Polyclonal Antibody detects endogenous levels of FAK protein only when phosphorylated at Y861.The name of modified sites may be influenced by many factors, such as species (the modified site was not originally found in human samples) and the change of protein sequence (the previous protein sequence is incomplete, and the protein sequence may be prolonged with the development of protein sequencing technology). When naming, we will use the "numbers" in historical reference to keep the sites consistent with the reports. The antibody binds to the following modification sequence (lowercase letters are modification sites):HIyQP

Target Information

Gene name PTK2

Protein Name Focal adhesion kinase 1

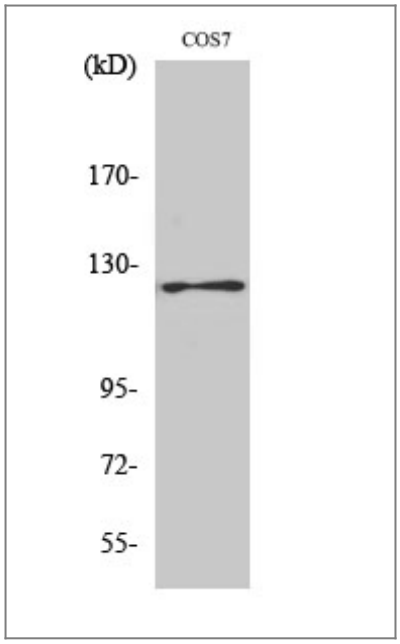
Organism	Gene ID	UniProt ID
Human	5747;	Q05397;
Mouse	14083;	P34152;
Rat	25614;	O35346;

Cellular Localization Cell junction , focal adhesion. Cell membrane; Peripheral membrane protein; Cytoplasmic side. Cytoplasm , cell cortex. Cytoplasm , cytoskeleton. Cytoplasm , cytoskeleton , microtubule organizing center , centrosome . Nucleus. Cytoplasm , cytoskeleton , cilium basal body . Constituent of focal adhesions. Detected at microtubules.

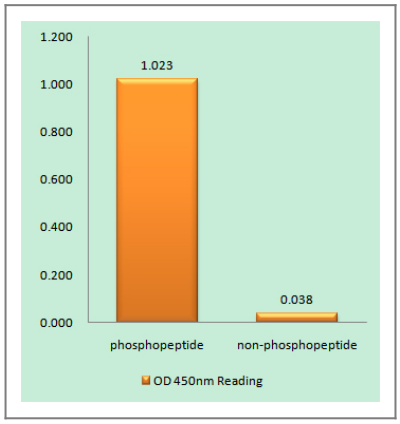
Tissue specificity Detected in B and T-lymphocytes. Isoform 1 and isoform 6 are detected in lung fibroblasts (at protein level) . Ubiquitous. Expressed in epithelial cells (at protein level) (PubMed:31630787) .

Function 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 TGFB1I1. ,tissue specificity:Expressed in all organs tested , in lymphoid cell lines , but most abundantly in brain. ,

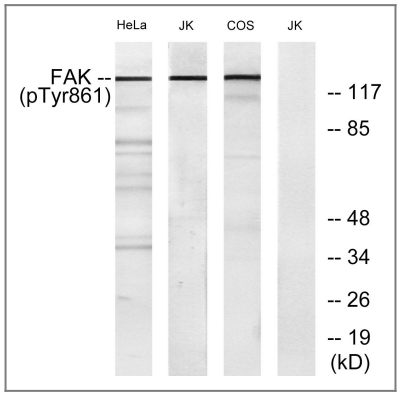
Validation Data



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



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.

Contact information

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Please scan the QR code to access additional product information:
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