

## FAK (Phospho Ser732) Rabbit pAb

CatalogNo: YP1234 **Orthogonal Validated** 

### Key Features

#### Host Species

- Rabbit

#### Reactivity

- Human, Mouse, Rat

#### Applications

- IHC, IF, WB

#### MW

- 120kD (Observed)

#### Isotype

- 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

IHC 1:50-200

WB 1:500-2000

IF 1:50-200

### Basic Information

**Clonality** Polyclonal

### Immunogen Information

**Immunogen** Synthesized peptide derived from human FAK (Phospho-Ser732)

**Specificity** This antibody detects endogenous phospho levels of FAK (Phospho-Ser732) at Human:S732, Mouse:S770, Rat:S732. 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 When naming, we will use the "numbers" in historical reference to keep the sites consistent with the reports.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): YPsPQ

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## | Target Information

**Gene name** PTK2 FAK FAK1

**Protein Name** FAK (Phospho-Ser732)

Organism	Gene ID	UniProt ID
Human	<a href="#">5747</a> ;	<a href="#">Q05397</a> ;

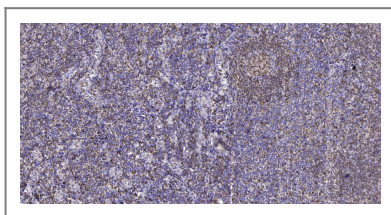
**Cellular Localization** Cell junction , focal adhesion. Cell membrane; Peripheral membrane protein; Cytoplasmic side. Cytoplasm , cell cortex. Cytoplasm , cytoskeleton. Cytoplasm , cytoskeleton , microtubule organizing center , centrosome . Nucleus. Cytoplasm , cytoskeleton , cilium basal body . Constituent 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) .

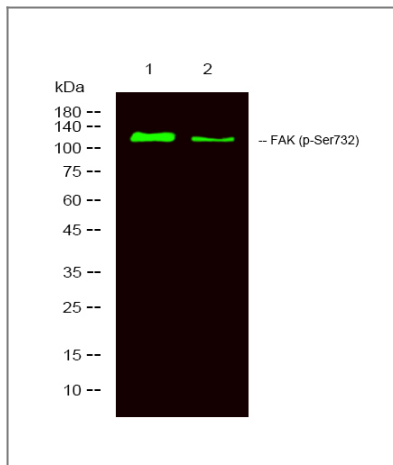
**Function** Catalytic activity:ATP + a [protein]-L-tyrosine = ADP + a [protein]-L-tyrosine phosphate. ,Domain:The carboxy-terminal region is the site of focal adhesion targeting (FAT) sequence which mediates the localization of FAK1 to focal adhesions. ,Domain:The first Pro-rich domain interacts with 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 RGNF and SHB (By similarity) . Interacts with TGFB11. ,tissue specificity:Expressed in all organs tested , in lymphoid cell lines , but most abundantly in brain. ,

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## | Validation Data



Immunohistochemical analysis of paraffin-embedded human tonsil. 1, Antibody was diluted at 1:200 (4°C overnight). 2, Tris-EDTA,pH9.0 was used for antigen retrieval. 3,Secondary antibody was diluted at 1:200 (room temperature, 45min).



Western Blot analysis of 1 A431 treated with LPS, 2 A431, using primary antibody at 1:1000 dilution. Secondary antibody (catalog#:RS23920) was diluted at 1:10000

## Contact information

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**FAK (Phospho Ser732) Rabbit pAb**

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