

FAK (Phospho Tyr576/Tyr577) (PT1269R) PT™ Rabbit mAb

CatalogNo: YM9111 **Recombinant** 

Key Features

Host Species

- Rabbit

Reactivity

- Human, Mouse, Rat

Applications

- WB, IF, IP, ELISA

MW

- 119kD (Calculated)
125kD (Observed)

Isotype

- IgG, Kappa

Recommended Dilution Ratios

WB 1:10000-1:50000**IF 1:200-1:1000****ELISA 1:5000-1:20000****IP 1:50-1:200**

Storage

Storage* -15°C to -25°C/1 year (Do not lower than -25°C)**Formulation** PBS, 50% glycerol, 0.05% Proclin 300, 0.05% BSA

Basic Information

Clonality Monoclonal**Clone Number** PT1269R

Immunogen Information

Specificity FAK (Phospho Tyr576/Tyr577) Antibody detects endogenous levels of FAK protein only when phosphorylated at Y576/Y577. 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 When naming, we will use the "numbers" in historical reference to keep the sites consistent with the reports.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): STyyKA

Target Information

Gene name PTK2
Protein Name Focal adhesion kinase 1

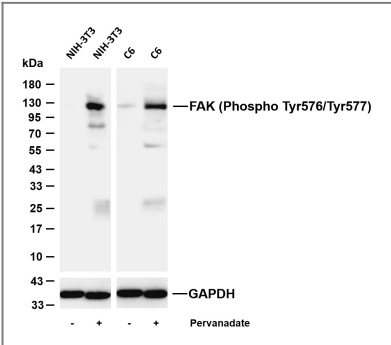
Organism	Gene ID	UniProt ID
Human	5747;	Q05397;
Mouse	14083;	P34152;
Rat	25614;	O35346;

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 TGFBI1.,tissue specificity:Expressed in all organs tested, in lymphoid cell lines, but most abundantly in brain.,

Validation Data



Various whole cell lysates were separated by 4-20% SDS-PAGE, and the membrane was blotted with anti-FAK (Phospho Tyr576/Tyr577) (PT1269R) antibody. The HRP-conjugated Goat anti-Rabbit IgG (H + L) antibody was used to detect the antibody. Lane 1: NIH-3T3 Lane 2: NIH-3T3 was treated with Pervanadate(10mM) for 1 hour Lane 3: C6 Lane 4: C6 was treated with Pervanadate(10mM) for 1 hour Predicted band size: 119kDa Observed band size: 125kDa

| Contact information

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Tyr576/Tyr577)
(PT1269R) PT™
Rabbit mAb**

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