

FAK (Phospho Tyr397) Rabbit pAb

CatalogNo: YP0739 **Orthogonal Validated** 

Key Features

Host Species

- Rabbit

Reactivity

- Human, Mouse, Rat

Applications

- WB, IHC, IF, ELISA

MW

- 119kD (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

WB 1:500-1:2000

IHC 1:100-1:300

ELISA 1:5000

IF 1:50-200

Basic Information

Clonality Polyclonal

Immunogen Information

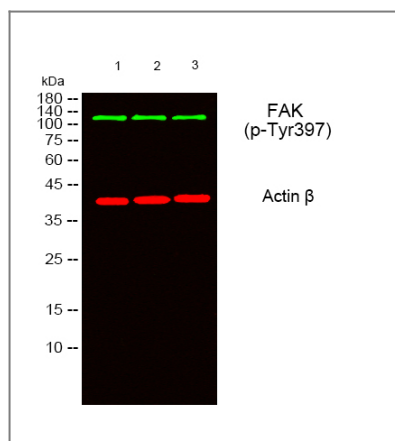
Immunogen The antiserum was produced against synthesized peptide derived from human FAK around the phosphorylation site of Tyr397. AA range:363-412

Specificity Phospho-FAK (Y397) Polyclonal Antibody detects endogenous levels of FAK protein only when phosphorylated at Y397. 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 When naming, we will use the "numbers" in historical reference to keep the sites consistent with the reports.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):DDyAE

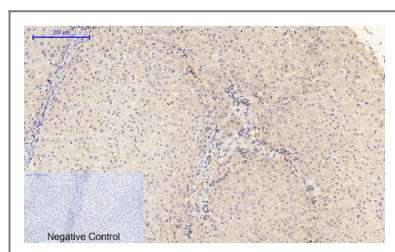
| Target Information

Gene name	PTK2		
Protein Name	Focal adhesion kinase 1		
	Organism	Gene ID	UniProt ID
	Human	5747 ;	Q05397 ;
	Mouse	14083 ;	P34152 ;
	Rat	25614 ;	Q35346 ;
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 TGFBI1. ,tissue specificity:Expressed in all organs tested , in lymphoid cell lines , but most abundantly in brain. ,		

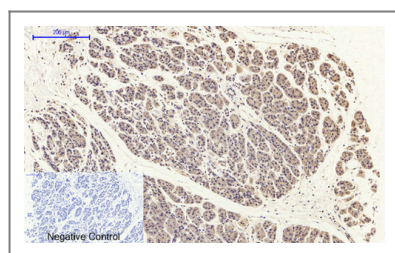
Validation Data



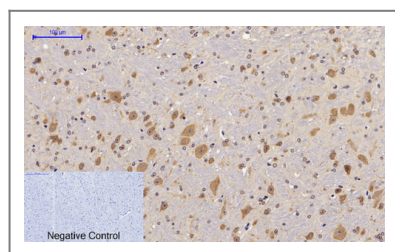
Western blot analysis of lysates from 1) 293T, 2) AD293, 3) HeLa cells, (Green) primary antibody was diluted at 1:1000, 4°C over night, secondary antibody (cat:RS23920) was diluted at 1:10000, 37° 1hour. (Red) Actin β Monoclonal Antibody (5B7) (cat:YM3028) antibody was diluted at 1:5000 as loading control, 4°C over night, secondary antibody (cat:RS23710) was diluted at 1:10000, 37° 1hour.



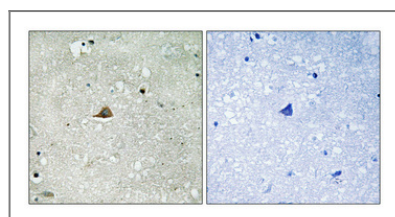
Immunohistochemical analysis of paraffin-embedded Human-liver tissue. 1, FAK (phospho Tyr397) Polyclonal Antibody was diluted at 1:200 (4°C overnight). 2, Sodium citrate pH 6.0 was used for antibody retrieval (>98°C, 20min). 3, Secondary antibody was diluted at 1:200 (room temperature, 30min). Negative control was used by secondary antibody only.



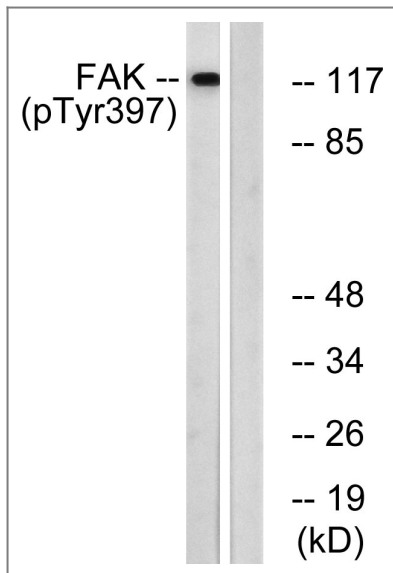
Immunohistochemical analysis of paraffin-embedded Human-stomach-cancer tissue. 1, FAK (phospho Tyr397) Polyclonal Antibody was diluted at 1:200 (4°C overnight). 2, Sodium citrate pH 6.0 was used for antibody retrieval (>98°C, 20min). 3, Secondary antibody was diluted at 1:200 (room temperature, 30min). Negative control was used by secondary antibody only.



Immunohistochemical analysis of paraffin-embedded Mouse-brain tissue. 1, FAK (phospho Tyr397) Polyclonal Antibody was diluted at 1:200 (4°C overnight). 2, Sodium citrate pH 6.0 was used for antibody retrieval (>98°C, 20min). 3, Secondary antibody was diluted at 1:200 (room temperature, 30min). Negative control was used by secondary antibody only.



Immunohistochemical analysis of paraffin-embedded Human brain. Antibody was diluted at 1:100 (4°C overnight). High-pressure and temperature Tris-EDTA, pH 8.0 was used for antigen retrieval. Negative control (right) obtained from antibody was pre-absorbed by immunogen peptide.



Western blot analysis of lysates from Jurkat cells treated with Ca^{2+} 40nM 30', using FAK (Phospho-Tyr397) Antibody. The lane on the right is blocked with the phospho peptide.

Contact information

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