



Mouse Monoclonal Antibody **FAK** conjugated to Sepharose Beads

CatalogNo: **ANT8154-S**

Size 200ul

Storage Store at 4 °C for frequent use

Description

This Antagene antibody is immobilized via covalent binding of primary amino groups to N-hydroxysuccinimide (NHS)-activated sepharose beads. It is useful for immunoprecipitation assays.

FAK (ANT0045R) Rabbit mAb

Formulation: 50% slurry in PBS pH 7.2 with 0.01mg NaN₃ preservative.

Host Species

- Rabbit

Reactivity

- Human, Mouse, Rat,

Applications

- WB, IHC, IF, IP, ELISA

MW

- 119kD (Calculated)
- 119kD (Observed)

Isotype

- IgG, Kappa

Recommended Dilution Ratios

IP

Basic Information

Clonality	Monoclonal
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Clone Number	ANT0045R
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Immunogen Information

Specificity Endogenous

Gene name ANTK2

Protein Name Focal adhesion kinase 1

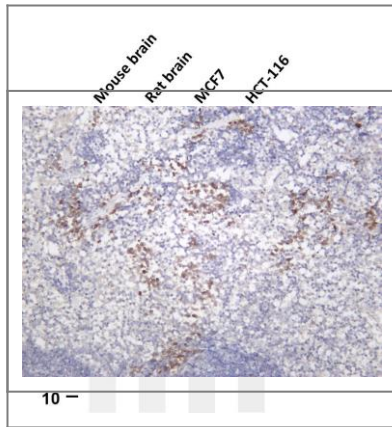
Organism	Gene ID	UniProt ID
Human	5747;	Q05397;
Mouse	14083;	P34152;
Rat	25614;	O35346;

Cellular Localization Cytoplasm

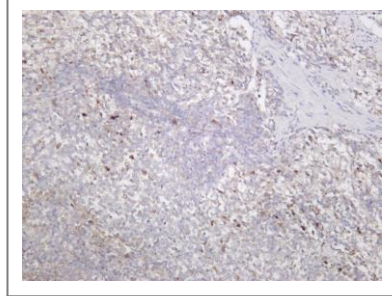
Tissue specificity Detected in B and T-lymphocytes. Isoform 1 and isoform 6 are detected in lung fibroblasts (at protein level). Ubiquitous. Expressed in epithelial cells (at protein level) (PubMed:31630787).

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 Prorich 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.,

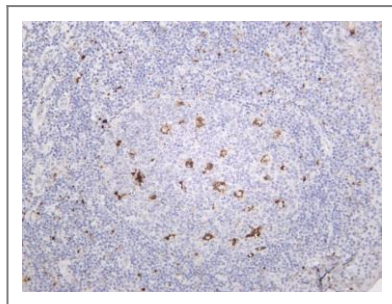
Validation Data



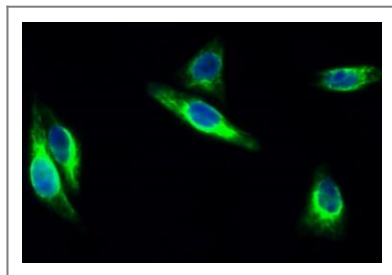
Various whole cell lysates were separated by 4-20% SDS-PAGE, and the membrane was blotted with anti-FAK (ANT0045R) antibody. The HRPconjugated Goat anti-Rabbit IgG(H + L) antibody was used to detect the antibody. Lane 1: Mouse brain Lane 2: Rat brain Lane 3: MCF7 Lane 4: HCT-116 Predicted band size: 119kDa Observed band size: 119kDa
Mouse spleen was stained with Anti-FAK (ANT0045R) rabbit antibody



Rat spleen was stained with Anti-FAK (ANT0045R) rabbit antibody



Human tonsil was stained with Anti-FAK (ANT0045R) rabbit antibody



Immunofluorescence analysis of HeLa cell. 1,FAK Antibody(green) was diluted at 1:200(4° overnight). 2, Goat Anti Rabbit Alexa Fluor 488 Catalog:RS3211 was diluted at 1:1000(room temperature, 50min). 3 DAPI(blue) 10min.

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