

Product datasheet

Anti-FAK (phospho Y861) antibody [EP841Y] α ab81293

RabMAb[®]

[1 References](#) [1 Image](#)

Overview

| | |
|----------------------------|---|
| Product name | Anti-FAK (phospho Y861) antibody [EP841Y] |
| Description | Rabbit monoclonal [EP841Y] to FAK (phospho Y861) |
| Host species | Rabbit |
| Tested applications | Suitable for: WB Unsuitable for: Flow Cyt, ICC, IHC-P or IP |
| Species reactivity | Reacts with: Mouse, Rat, Human |
| Immunogen | Synthetic peptide corresponding to residues surrounding tyrosine 861 of human FAK |
| Positive control | Hela cell lysates treated with pervanadate. |
| General notes | Our RabMAb [®] technology is a patented hybridoma-based technology for making rabbit monoclonal antibodies. For details on our patents, please refer to RabMAb[®] patents |

Properties

| | |
|-----------------------------|--|
| Form | Liquid |
| Storage instructions | Shipped at 4°C. Upon delivery aliquot and store at -20°C. Avoid repeated freeze / thaw cycles. |
| Storage buffer | PBS 49%, Sodium azide 0.01%, Glycerol 50%, BSA 0.05% |
| Purity | Tissue culture supernatant |
| Clonality | Monoclonal |
| Clone number | EP841Y |
| Isotype | IgG |

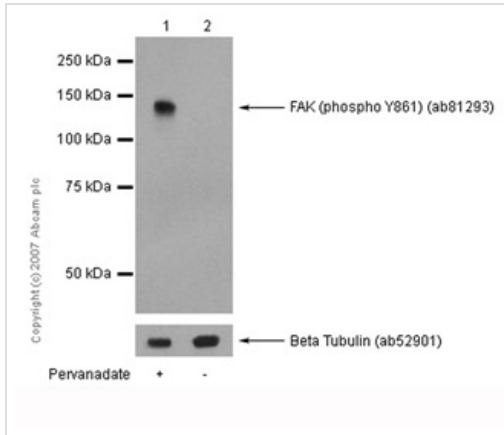
Applications

Our [Abpromise guarantee](#) covers the use of **ab81293** in the following tested applications.

The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

| Application | Abreviews | Notes |
|---|-----------|--|
| WB | | 1/10000 - 1/50000. Predicted molecular weight: 119 kDa. |
| Application notes | | Is unsuitable for Flow Cyt,ICC,IHC-P or IP. |
| Target | | |
| 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. Microtubule-induced dephosphorylation at Tyr-397 is crucial for the induction of focal adhesion disassembly. Plays a potential role in oncogenic transformations resulting in increased kinase activity. |
| Tissue specificity | | Expressed in all organs tested, in lymphoid cell lines, but most abundantly in brain. |
| Sequence similarities | | Belongs to the protein kinase superfamily. Tyr protein kinase family. FAK subfamily. Contains 1 FERM domain. Contains 1 protein kinase domain. |
| Domain | | The first Pro-rich domain interacts with the SH3 domain of CRK-associated substrate (BCAR1) and CASL. The carboxy-terminal region is the site of focal adhesion targeting (FAT) sequence which mediates the localization of FAK1 to focal adhesions. |
| Post-translational modifications | | Phosphorylated on 6 tyrosine residues upon activation. Microtubule-induced dephosphorylation at Tyr-397 could be catalyzed by PTPN11 and regulated by ZFYVE21. Dephosphorylated by PTPN11 upon EPHA2 activation by its ligand EFNA1. |
| Cellular localization | | Cell junction > focal adhesion. Cell membrane. Constituent of focal adhesions. |

Images



Western blot - Anti-FAK (phospho Y861) antibody [EP841Y] (ab81293)

All lanes : Anti-FAK (phospho Y861) antibody [EP841Y] (ab81293) at 1/50000 dilution

Lane 1 : HeLa cell lysates treated with pervanadate

Lane 2 : HeLa cell lysates, untreated

Secondary

All lanes : HRP goat ant-rabbit IgG (H+L) at 1/2000 dilution

Predicted band size: 119 kDa

Observed band size: 125 kDa

Exposure time: 30 seconds

Blocking buffer: 5% NFDM/TBST

Dilution buffer: 5% NFDM/TBST

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