

Product datasheet

Anti-FAK (phospho Y861) antibody [EP841Y] α b81293

RabMAb[®]

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

Overview

Product name	Anti-FAK (phospho Y861) antibody [EP841Y]
Description	Rabbit monoclonal [EP841Y] to FAK (phospho Y861)
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.

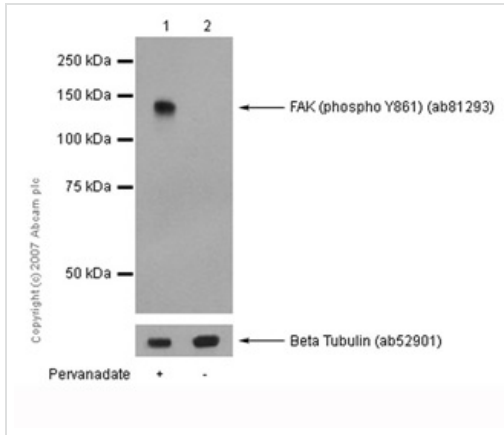
Post-translational modifications

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

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% NFD/MTBST

Dilution buffer: 5% NFD/MTBST

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