Product datasheet

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

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 within Human FAK (phospho Y861). The exact sequence is proprietary.
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 pH: 7.20
Preservative: 0.05% Sodium azide
Constituents: 0.1% BSA, 40% Glycerol, 9.85% Tris glycine, 50% Tissue culture supernatant
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.
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**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**


**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

why is the actual band size different from the predicted?
Exposure time: 30 seconds

Blocking buffer: 5% NFDM/TBST
Dilution buffer: 5% NFDM/TBST

Please note: All products are "FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC PROCEDURES"

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