

## Product datasheet

# Anti-FAK (phospho Y397) antibody [M121] ab24781

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### Overview

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<b>Product name</b>	Anti-FAK (phospho Y397) antibody [M121]
<b>Description</b>	Mouse monoclonal [M121] to FAK (phospho Y397)
<b>Host species</b>	Mouse
<b>Tested applications</b>	<b>Suitable for:</b> WB
<b>Species reactivity</b>	<b>Reacts with:</b> Human
<b>Immunogen</b>	Synthetic peptide corresponding to Human FAK (phospho Y397) conjugated to keyhole limpet haemocyanin.
<b>Positive control</b>	Untreated HUVEC cells.
<b>General notes</b>	<p>The Life Science industry has been in the grips of a reproducibility crisis for a number of years. Abcam is leading the way in addressing this with our range of recombinant monoclonal antibodies and knockout edited cell lines for gold-standard validation. Please check that this product meets your needs before purchasing.</p> <p>If you have any questions, special requirements or concerns, please send us an inquiry and/or contact our Support team ahead of purchase. Recommended alternatives for this product can be found below, along with publications, customer reviews and Q&amp;As</p>

### Properties

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<b>Form</b>	Liquid
<b>Storage instructions</b>	Shipped at 4°C. Upon delivery aliquot and store at -20°C. Avoid freeze / thaw cycles.
<b>Storage buffer</b>	Preservative: 0.05% Sodium azide Constituents: PBS, 50% Glycerol, 0.1% BSA
<b>Purity</b>	Protein A purified
<b>Clonality</b>	Monoclonal
<b>Clone number</b>	M121
<b>Isotype</b>	IgG1

### Applications

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**The Abpromise guarantee** Our **Abpromise guarantee** covers the use of ab24781 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		1/500. Detects a band of approximately 125 kDa.

## 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.

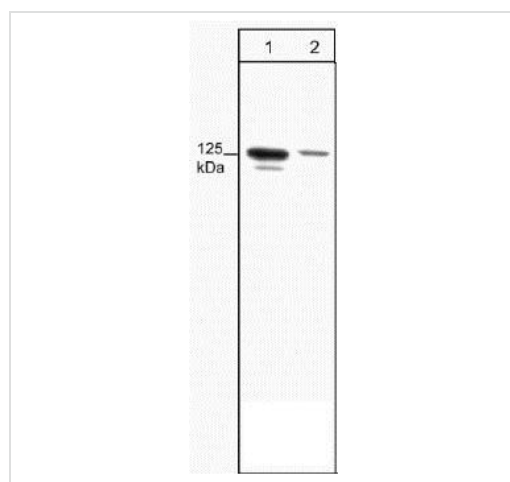
### Post-translational modifications

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



**All lanes :** Anti-FAK (phospho Y397) antibody [M121] (ab24781)

**Lane 1 :** HUVEC untreated cells.

**Lane 2 :** HUVEC cells treated with alkaline phosphatase

**Observed band size:** 125 kDa

Western blot - Anti-FAK (phospho Y397) antibody  
[M121] (ab24781)

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

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- Extensive multi-media technical resources to help you
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