

Product datasheet

Anti-FAK (phospho Y397) antibody ab39967

★★★★★ 4 Abreviews 15 References 画像数 3

製品の概要

製品名	Anti-FAK (phospho Y397) antibody
製品の詳細	Rabbit polyclonal to FAK (phospho Y397)
由来種	Rabbit
特異性	This antibody gave a positive result in ELISA against the immunizing peptide ( <a href="#">ab40145</a> ). It gave a negative result in ELISA against the non-modified equivalent peptide ( <a href="#">ab53601</a> ). This indicates that it is specific for the modified peptide.
アプリケーション	<b>適用あり:</b> WB, ICC/IF, IHC-P
種交差性	<b>交差種:</b> Mouse, Human, Drosophila melanogaster <b>交差が予測される動物種:</b> Rat, Chicken, Zebrafish ▲
免疫原	Synthetic peptide conjugated to KLH derived from within residues 350 - 450 of Human FAK, phosphorylated at Y397. Immunogen の所有権に関して (Peptide available as <a href="#">ab40145</a> .)
ポジティブ・コントロール	NIH 3T3 Whole Cell Lysate, NIH 3T3 Whole Cell Lysate treated with Vanadate + PDGF, A431 Whole Cell Lysate treated with EGF

製品の特性

製品の状態	Liquid
保存方法	Shipped at 4°C. Store at +4°C short term (1-2 weeks). Upon delivery aliquot. Store at -20°C or -80°C. Avoid freeze / thaw cycle.
バッファー	Preservative: 0.02% Sodium Azide Constituents: 1% BSA, PBS, pH 7.4
精製度	Immunogen affinity purified
ポリモノ	ポリクローナル
アイソタイプ	IgG

アプリケーション

Our [Abpromise guarantee](#) covers the use of **ab39967** in the following tested applications.

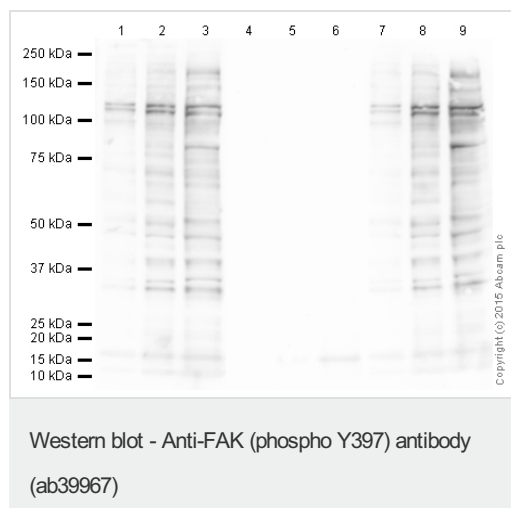
The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

アプリケーション	Abreviews	特記事項
WB	★★★★☆	Use a concentration of 1 µg/ml. Detects a band of approximately 119 kDa (predicted molecular weight: 119 kDa).
ICC/IF	★★★★★	Use a concentration of 5 µg/ml.
IHC-P	★★★★★	Use at an assay dependent concentration.

## ターゲット情報

<b>機能</b>	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.
<b>組織特異性</b>	Expressed in all organs tested, in lymphoid cell lines, but most abundantly in brain.
<b>配列類似性</b>	Belongs to the protein kinase superfamily. Tyr protein kinase family. FAK subfamily. Contains 1 FERM domain. Contains 1 protein kinase domain.
<b>ドメイン</b>	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.
<b>翻訳後修飾</b>	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.
<b>細胞内局在</b>	Cell junction > focal adhesion. Cell membrane. Constituent of focal adhesions.

## 画像



**All lanes :** Anti-FAK (phospho Y397) antibody (ab39967) at 1 µg/ml

**Lane 1 :** NIH 3T3 (Mouse embryonic fibroblast cell line) Whole Cell Lysate at 10 µg

**Lane 2 :** NIH 3T3 treated with Vanadate and PDGF Whole Cell Lysate at 10 µg

**Lane 3 :** EGF-Stimulated A431 Whole Cell Lysate at 20 µg

**Lane 4 :** NIH 3T3 (Mouse embryonic fibroblast cell line) Whole Cell Lysate at 10 µg

with mouse FAK (phospho Y397) peptide  
([ab40145](#)) at 1 µg/ml

**Lane 5 :** NIH 3T3 treated with Vanadate and PDGF Whole Cell Lysate at 10 µg with Mouse FAK (phospho Y397) peptide ([ab40145](#)) at 1 µg/ml

**Lane 6 :** EGF-Stimulated A431 Whole Cell Lysate at 20 µg with Mouse FAK (phospho Y397) peptide ([ab40145](#)) at 1 µg/ml

**Lane 7 :** NIH 3T3 (Mouse embryonic fibroblast cell line) Whole Cell Lysate at 10 µg with Mouse FAK peptide ([ab53601](#)) at 1 µg/ml

**Lane 8 :** NIH 3T3 treated with Vanadate and PDGF Whole Cell Lysate at 10 µg with Mouse FAK peptide ([ab53601](#)) at 1 µg/ml

**Lane 9 :** EGF-Stimulated A431 Whole Cell Lysate at 20 µg with Mouse FAK peptide ([ab53601](#)) at 1 µg/ml

### Secondary

**All lanes :** Goat Anti-Rabbit IgG H&L (HRP) preadsorbed at 1/50000 dilution

Developed using the ECL technique.

Performed under reducing conditions.

**Predicted band size:** 119 kDa

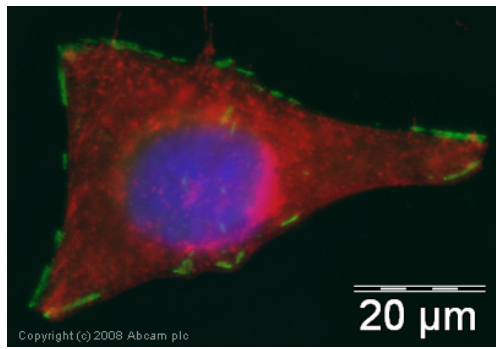
**Observed band size:** 120 kDa

**Additional bands at:** 115 kDa, 200 kDa, 90 kDa. We are unsure as to the identity of these extra bands.

**Exposure time:** 4 minutes

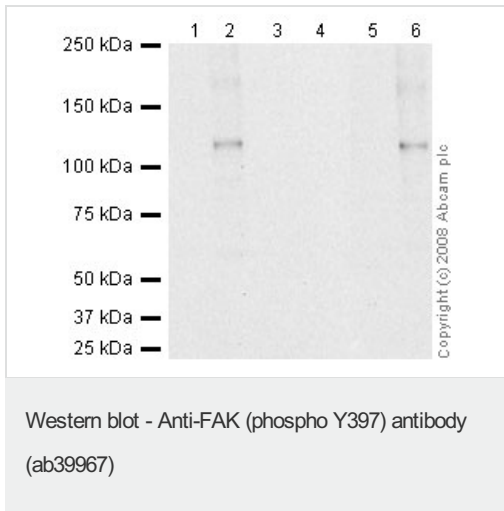
This blot was produced using a 4-12% Bis-tris gel under the MOPS buffer system. The gel was run at 200V for 50 minutes before being transferred onto a Nitrocellulose membrane at 30V for 70 minutes. The membrane was then blocked for an hour using 2% Bovine Serum Albumin before being incubated with ab39967 overnight at 4°C. Antibody binding was

detected using an anti-rabbit antibody conjugated to HRP, and visualised using ECL development solution [ab133406](#).



Immunocytochemistry/ Immunofluorescence - Anti-FAK (phospho Y397) antibody (ab39967)

ICC/IF image of ab39967 stained human HeLa cells. The cells were methanol fixed (5 min), permeabilised in 0.1% PBS-Tween (20 min) and incubated with the antibody (ab39967, 5 μg/ml) for 1h at room temperature. 1%BSA / 10% normal goat serum / 0.3M glycine was used to block non-specific protein-protein interactions. The secondary antibody (green) was Alexa Fluor® 488 goat anti-rabbit IgG (H+L) used at a 1/1000 dilution for 1h. Alexa Fluor® 594 WGA was used to label plasma membranes (red). DAPI was used to stain the cell nuclei (blue).



**All lanes :** Anti-FAK (phospho Y397) antibody (ab39967) at 1 µg/ml

**Lane 1 :** NIH 3T3 (Mouse embryonic fibroblast cell line) Whole Cell Lysate

**Lane 2 :** NIH 3T3 treated with Vanadate and PDGF Whole Cell Lysate

**Lane 3 :** NIH 3T3 (Mouse embryonic fibroblast cell line) Whole Cell Lysate with Mouse FAK (phospho Y397) peptide (ab40145) at 1 µg/ml

**Lane 4 :** NIH 3T3 treated with Vanadate and PDGF Whole Cell Lysate with Mouse FAK (phospho Y397) peptide (ab40145) at 1 µg/ml

**Lane 5 :** NIH 3T3 (Mouse embryonic fibroblast cell line) Whole Cell Lysate with Mouse FAK peptide (ab53601) at 1 µg/ml

**Lane 6 :** NIH 3T3 treated with Vanadate and PDGF Whole Cell Lysate with Mouse FAK peptide (ab53601) at 1 µg/ml

Lysates/proteins at 10 µg per lane.

### Secondary

**All lanes :** Goat polyclonal to Rabbit IgG - H&L - Pre-Adsorbed (HRP) at 1/3000 dilution

Performed under reducing conditions.

**Predicted band size:** 119 kDa

**Observed band size:** 119 kDa

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