


### Anti-FAK (phospho Y861) antibody ab4804

★★★★★ [2 Abreviews](#) [4 References](#) [画像数 3](#)

#### 製品の概要

製品名	Anti-FAK (phospho Y861) antibody
製品の詳細	Rabbit polyclonal to FAK (phospho Y861)
由来種	Rabbit
アプリケーション	<b>適用あり:</b> WB, ICC
種交差性	<b>交差種:</b> Chicken, Human <b>交差が予測される動物種:</b> Rat, Xenopus laevis 
免疫原	Synthetic peptide corresponding to Human FAK (phospho Y861). The sequence is conserved in mouse, rat, chicken and frog.
特記事項	<p>Focal Adhesion Kinase is a 125 kDa non-receptor protein tyrosine kinase that is a substrate for Src and a key element in growth factor and integrin signalling. Focal Adhesion Kinase plays a central role in cell spreading, differentiation, migration, cell death and acceleration of the G1 to S phase transition of the cell cycle. Tyr861 of Focal Adhesion Kinase is a major Src phosphorylation site that allows Focal Adhesion Kinase to bind to integrins and is also involved in cancer.</p> <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>

#### 製品の特性

製品の状態	Liquid
保存方法	Shipped at 4°C. Upon delivery aliquot and store at -20°C or -80°C. Avoid repeated freeze / thaw cycles.
バッファー	pH: 7.3 Preservative: 0.05% Sodium azide Constituents: PBS, 50% Glycerol (glycerin, glycerine), 0.1% BSA

精製度	BSA is IgG and protease free
特記事項 (精製)	Immunogen affinity purified
一次抗体 備考	Purified from rabbit serum by sequential epitope-specific chromatography. The antibody has been negatively preadsorbed using (i) a non-phosphopeptide corresponding to the site of phosphorylation to remove antibody that is reactive with non-phosphorylated Focal Adhesion Kinase protein, and (ii) a generic tyrosine phosphorylated peptide to remove antibody that is reactive with phosphotyrosine (irrespective of the sequence). The final product is generated by affinity chromatography using a Focal Adhesion Kinase-derived peptide that is phosphorylated at tyrosine 861.
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

**The Abpromise guarantee**      **Abpromise保証は、次のテスト済みアプリケーションにおけるab4804の使用に適用されます**  
 アプリケーションノートには、推奨の開始希釈率がありますが、適切な希釈率につきましてはご確認ください。

アプリケーション	Abreviews	特記事項
WB	★★★★★ (2)	1/1000. Predicted molecular weight: 119 kDa.
ICC		1/250.

## ターゲット情報

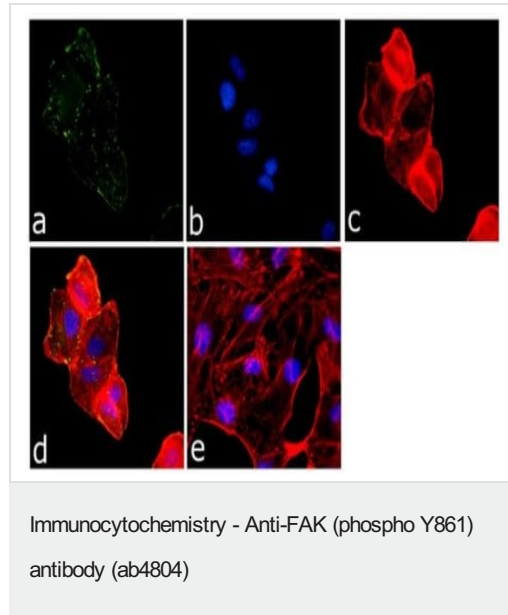
機能	Non-receptor protein-tyrosine kinase implicated in signaling pathways involved in cell motility, proliferation and apoptosis. Activated by tyrosine-phosphorylation in response to either integrin clustering induced by cell adhesion or antibody cross-linking, or via G-protein coupled receptor (GPCR) 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.
組織特異性	Expressed in all organs tested, in lymphoid cell lines, but most abundantly in brain.
配列類似性	Belongs to the protein kinase superfamily. Tyr protein kinase family. FAK subfamily. Contains 1 FERM domain. Contains 1 protein kinase domain.
ドメイン	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.
翻訳後修飾	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.

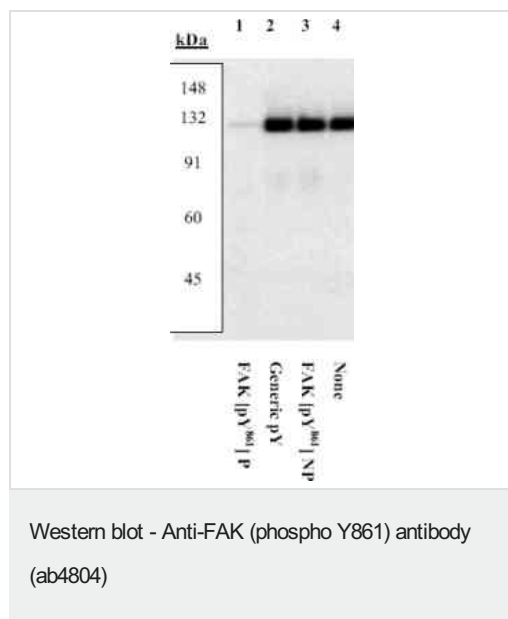
## 細胞内局在

Cell junction > focal adhesion. Cell membrane. Constituent of focal adhesions.

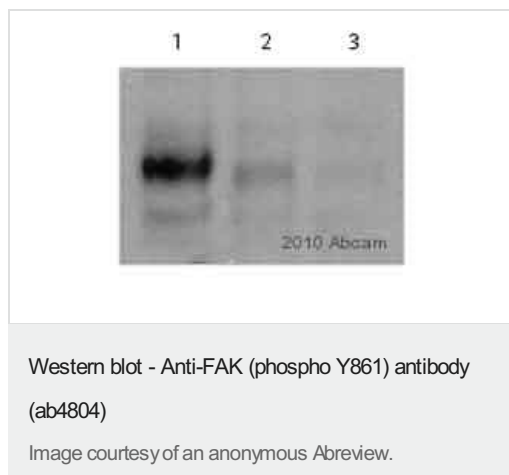
## 画像



Immunofluorescence analysis of FAK [pY861] was done on 70% confluent log phase A-549 cells. The cells were fixed with 4% paraformaldehyde for 15 minutes, permeabilized with 0.25% Triton™ X-100 for 10 minutes, and blocked with 5% BSA for 1 hour at room temperature. The cells were labelled with ab4804 at 1:250 dilution in 1% BSA and incubated for 3 hours at room temperature and then labelled with a Goat anti-Rabbit IgG (H+L) Superclonal™ Secondary Antibody, Alexa Fluor® 488 conjugate at a dilution of 1:2000 for 45 minutes at room temperature (Panel a: green). Nuclei (Panel b: blue) were stained with DAPI. F-actin (Panel c: red) was stained with Rhodamine Phalloidin at a 1:300 dilution. Panel d is a merged image showing localization of target protein at focal adhesions. Panel e is a no primary antibody control. The images were captured at 60X magnification.



Peptide Competition: Cell extracts prepared from chick embryo fibroblasts expressing FAK and plated on fibronectin were resolved by SDS-PAGE on a 10% Tris-glycine gel. The proteins then were transferred to nitrocellulose and incubated with 0.50 µg/mL ab4804 antibody, following prior incubation with: (1) the phosphopeptide immunogen, (2) a generic phosphotyrosine containing peptide, (3) the non-phosphorylated peptide corresponding to the phosphopeptide, and (4) no peptide. After washing, membranes were incubated with goat F(ab')<sub>2</sub> anti-rabbit IgG alkaline phosphatase and bands were detected using the Tropix WesternStar detection method. The data show that only the phosphopeptide corresponding to this site blocks the antibody signal, demonstrating the specificity of the ab4804 antibody for this phosphorylated residue. Peptide Competition: Cell extracts prepared from chick embryo fibroblasts expressing FAK and plated on fibronectin were resolved by SDS-PAGE on a 10% T



**All lanes :** Anti-FAK (phospho Y861) antibody (ab4804) at 1/1000 dilution

**Lane 1 :** Whole cell lysate prepared from human MDA-MB-231 breast cancer cells, un-treated

**Lane 2 :** Whole cell lysate prepared from human MDA-MB-231 breast cancer cells, treated for 1 hr with 2.5uM AZD0530 src inhibitor

**Lane 3 :** Whole cell lysate prepared from human MDA-MB-231 breast cancer cells, treated for 1 hr with 5uM AZD0530 src inhibitor

Lysates/proteins at 25 µg per lane.

#### Secondary

**All lanes :** Goat anti-rabbit HRP conjugated at 1/5000 dilution

Developed using the ECL technique.

Performed under reducing conditions.

**Predicted band size:** 119 kDa

**Observed band size:** 125 kDa

**Exposure time:** 5 minutes

Primary antibody incubated for 16 hours at 4°C.

Blocking step was performed using 5% milk for 1 hour at 25°C.

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