

Anti-FAK (phospho Y407) antibody ab4814

画像数 1

製品の概要

製品名	Anti-FAK (phospho Y407) antibody
製品の詳細	Rabbit polyclonal to FAK (phospho Y407)
由来種	Rabbit
特異性	Phosphorylation site-specific antibody selective for the phosphorylated form of the Focal Adhesion Kinase enzyme containing a phosphate on tyrosine 407. The antibody has been shown to recognize Focal Adhesion Kinase (approximately 125 kDa) in chick embryo fibroblast cells plated on fibronectin.
アプリケーション	適用あり: WB
種交差性	交差種: Chicken
免疫原	Synthetic peptide corresponding to FAK (phospho Y407). The sequence is conserved in mouse, rat and chicken.
特記事項	

Focal Adhesion Kinase is a non-receptor protein tyrosine kinase discovered as a substrate for Src and as a key element of 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. The activity of the phosphorylation site pTyr407 is currently unknown.

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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. Avoid 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	Immunogen affinity purified
特記事項 (精製)	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 enzyme 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 407.
一次抗体 備考	Focal Adhesion Kinase is a non-receptor protein tyrosine kinase discovered as a substrate for Src and as a key element of 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. The activity of the phosphorylation site pTyr407 is currently unknown.
ポリ/モノ	ポリクローナル
アイソタイプ	IgG

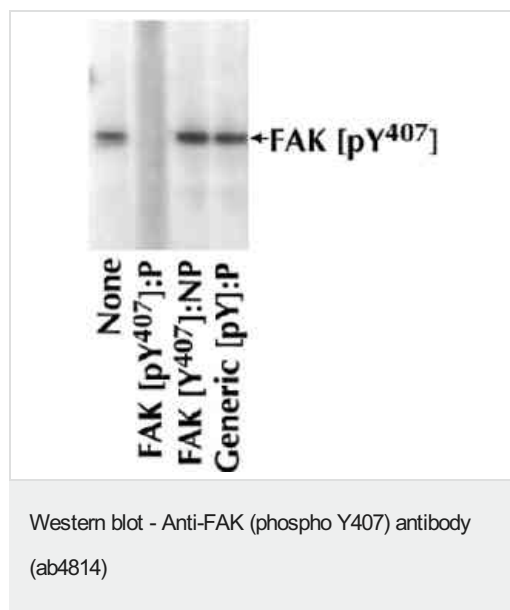
アプリケーション

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ab4814の使用に適用されます**
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アプリケーション	Abreviews	特記事項
WB		1/1000. Predicted molecular weight: 125 kDa.

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.



Cell extracts prepared from chick embryo fibroblasts expressing FAK and plated on fibronectin were resolved by SDS-PAGE on a 4-20% Tris-glycine gel. The proteins were then transferred to nitrocellulose. Membranes were incubated with 0.3 µg/mL ab4814, following prior incubation in the absence (none) or presence of the peptide immunogen, the non-phosphopeptide corresponding to the FAK phosphopeptide, or a generic phosphotyrosine peptide. After washing, membranes were incubated with goat F(ab')₂ 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, therefore demonstrating the specificity of ab4814 for this phosphorylated residue. Cell extracts prepared from chick embryo fibroblasts expressing FAK and plated on fibronectin were resolved by SDS-PAGE on a 4-20% Tris-glycine gel. The proteins were then transferred to

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