

Product datasheet

FAK (phospho Y861) peptide ab5304

Overview

Product name FAK (phospho Y861) peptide

Description

Nature Synthetic

Specifications

Our [Abpromise guarantee](#) covers the use of **ab5304** in the following tested applications.

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

Form Lyophilised

Additional notes Positive and negative control peptides for the Focal Adhesion Kinase phospho tyrosine 861 rabbit polyclonal antibody [ab4804](#). Molecular Weight: ab5304P - 1675 ab5304N - 1596 Peptide Content: 80 ± 4% Quantity: 100ug of each peptide.

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.

Preparation and Storage

Stability and Storage Shipped at 4°C. Upon delivery aliquot and store at -20°C or -80°C. Avoid repeated freeze / thaw cycles.

Constituent: 0.1% Trifluoroacetic acid

Reconstitution Centrifuge each vial briefly prior to opening. To reconstitute the peptides, pipette 100 µL sterile, distilled H2O into each vial. The peptides may be gently vortexed or triturated at room temperature to ensure complete solubilization. If the peptides are found to be slow to dissolve, the pH of the solutions may be neutralized by addition of small volumes (1-2 µL) 1.0 N ammonium hydroxide; alternatively, the peptides may be solubilized by addition of small volumes of organic solvent, such as ethanol or DMSO.

General Info

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.

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