Product Datasheet

FAK(Phospho-Tyr925) Antibody

Catalog No: #11123

Package Size: #11123-1 50ul #11123-2 100ul

Orders: order@signalwayantibody.com
Support: tech@signalwayantibody.com

Description

Product Name	FAK(Phospho-Tyr925) Antibody
Host Species	Rabbit
Clonality	Polyclonal
Purification	Antibodies were produced by immunizing rabbits with synthetic phosphopeptide and KLH conjugates. Antibodies were purified by affinity-chromatography using epitope-specific phosphopeptide. Non-phospho specific antibodies were removed by chromatogramphy using non-phosphopeptide.
Applications	WB IF
Species Reactivity	Human;Mouse;Rat
Specificity	The antibody detects endogenous level of FAK only when phosphorylated at tyrosine 925.
Immunogen Type	Peptide-KLH
Immunogen Description	Peptide sequence around phosphorylation site of tyrosine 925 (K-V-Y(p)-E-N) derived from Human FAK.
Conjugates	Unconjugated
Target Name	FAK
Modification	Phospho
Other Names	FADK 1; FAK1; PTK2
Accession No.	Swiss-Prot: Q05397NCBI Protein: NP_005598.3
Concentration	1.0mg/ml
Formulation	Supplied at 1.0mg/mL in phosphate buffered saline (without Mg2+ and Ca2+), pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol.
Storage	Store at -20°C for long term preservation (recommended). Store at 4°C for short term use.

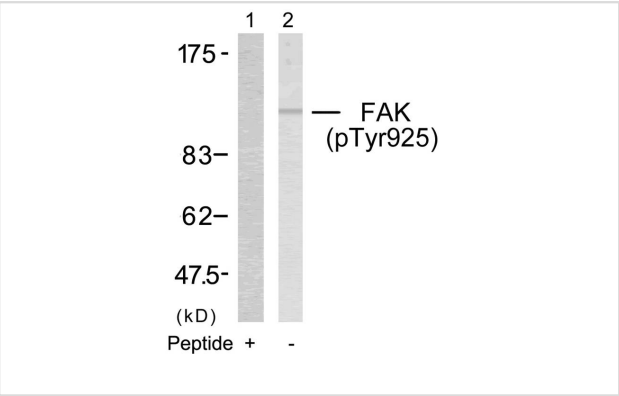
Application Details

Predicted MW: 125kd

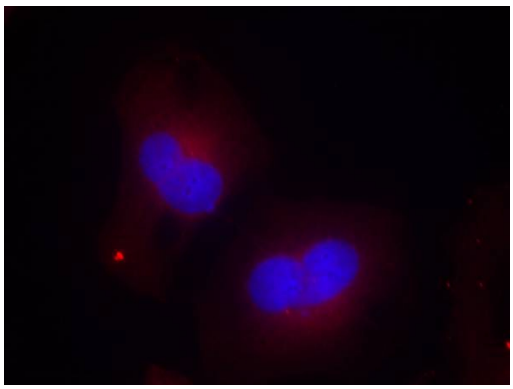
Western blotting: 1:500~1:1000

Immunofluorescence: 1:100~1:200

Images



Western blot analysis of extracts from 293 cells using FAK(Phospho-Tyr925) Antibody #11123(Lane 2) and the same antibody preincubated with blocking peptide(Lane1).



Immunofluorescence staining of methanol-fixed Hela cells using FAK(Phospho-Tyr925) Antibody #11123.

Background

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. Plays a potential role in oncogenic transformations resulting in increased kinase activity.

Sanders MA, et al. (2005) J Biol Chem; 280(25): 23516-22.
Cherubini A, et al. (2005) Mol Biol Cell; 16(6): 2972-83.
Toriumi Y, et al. (2003) FEBS Lett; 553(3): 419-22.

Published Papers

el at., Cytotoxic activity of Shp2 inhibitor fumosorinone in human cancer cells.In Oncol Lett.On 2018 Jun by Chen C, Xue T et al..PMID:29928374, , (2018)

PMID:29928374

el at., Human mesenchymal stromal cells in adhesion to cell-derived extracellular matrix and titanium: Comparative kInome profile analysis. In J Cell Physiol on 2019 Mar by Baroncelli M, Fuhler GM, et al..PMID:30058720, , (2019)

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el at., Platelet-dependent signaling and Low Molecular Weight Protein Tyrosine Phosphatase expression promote aggressive phenotypic changes in gastrointestinal cancer cells. In Biochim Biophys Acta Mol Basis Dis on 2022 Jan 1 by Alessandra V S Faria, Bingting Yu, et al..PMID: 34610471, , (2022)

PMID:34610471

el at., PAK1-Dependent Regulation of Microtubule Organization and Spindle Migration Is Essential for the Metaphase Iβ Metaphase II Transition in Porcine Oocytes In Biomolecules on 2024 Feb 17 by Lei Peng, Yijing He,et al..PMID:38397472, , (2024)

PMID:38397472

Alessandra V. S. Faria;Sheila S. Andrade;Agnes N. Reijm;Manon C. W. Spaander;Moniek P. M. de Maat;Maikel P. Peppelenbosch;Carmen Ferreira-Halder;Gwenny M. Fuhler el at., Targeting Tyrosine Phosphatases by 3-Bromopyruvate Overcomes Hyperactivation of Platelets from Gastrointestinal Cancer Patients, , (2019)

PMID:31261776

Byun Youngro;Hwang Hae Hyun;Jeong Hee Jeong;Kim Sung Wan;Lee Dong Yun;Okano Teruo;Yun Sangwu el at., Anticancer Effect of Heparin-Taurocholate Conjugate on Orthotopically Induced Exocrine and Endocrine Pancreatic Cancer, , (2021)

PMID:34830928

Note: This product is for in vitro research use only and is not intended for use in humans or animals.