

FAK(Phospho-Tyr397) Antibody

Catalog No: #11215



Package Size: #11215-1 50ul #11215-2 100ul

Orders: order@signalwayantibody.com

Support: tech@signalwayantibody.com

Description

Product Name	FAK(Phospho-Tyr397) 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 chromatography using non-phosphopeptide.
Applications	WB IHC
Species Reactivity	Human;Mouse;Rat
Specificity	The antibody detects endogenous level of FAK only when phosphorylated at Tyrosine 397.
Immunogen Type	Peptide-KLH
Immunogen Description	Peptide sequence around phosphorylation site of tyrosine 397(D-D-Y(p)-A-E)derived from Human FAK.
Conjugates	Unconjugated
Target Name	FAK
Modification	Phospho
Other Names	FAK; FAK1; PTK2
Accession No.	Swiss-Prot: Q05397NCBI Protein: NP_001186578.1
Concentration	1.0mg/ml
Formulation	Supplied at 1.0mg/mL in phosphate buffered saline (without Mg ²⁺ and Ca ²⁺), 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.

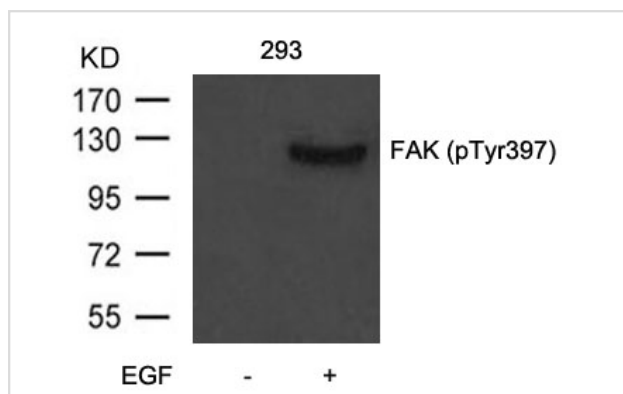
Application Details

Predicted MW: 125kd

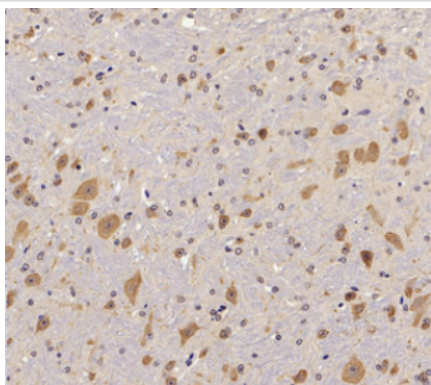
Western blotting: 1:500~1:1000

Immunohistochemistry: 1:50 - 1:100

Images



Western blot analysis of extract from 293 cells untreated or treated with EGF using FAK(Phospho-Tyr397) Antibody using #11215



Immunohistochemical analysis of paraffin-embedded
Mouse-brain tissue.

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. 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.

Matsuya M.et.al. (1998)J. Biol. Chem. 273:1003-1014

Fujita H.et.al. (1998)J. Biol. Chem. 273:26516-26521

Le Romancer M.et.al. (2008)Mol. Cell 31:212-221

Published Papers

JUNSHAN RUAN, LEI ZHANG, LINGGENG YAN et al., Inhibition of hypoxia-induced epithelial mesenchymal transition by luteolin in non-small cell lung cancer cells, MOLECULAR MEDICINE REPORTS, 6: 232-238(2012)

[PMID:22552526](#)

et al., PTBP3 contributes to the metastasis of gastric cancer by mediating CAV1 alternative splicing.In Cell Death Dis.On 2018 May 1 by PMID: 29752441 , , (2018)

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et al., Luteolin reduces the invasive potential of malignant melanoma cells by targeting ϵ -Y3 integrin and the epithelial-mesenchymal transition.In Acta Pharmacol Sin on 2012 Oct by Ruan JS, Liu YP,et al..PMID:22983392, , (2012)

[PMID:22983392](#)

et al., Identification of zinc finger protein of the cerebellum 5 as a survival factor of prostate and colorectal cancer cells.In Cancer Sci on 2017 Dec by Reiko Satow , Shota Inagaki,et al..PMID: 29024195, , (2017)

[PMID:29024195](#)

et al., Anti-cancer effect of orally absorbable heparin on orthotopically induced exocrine and endocrine pancreatic cancer. In Cancers (Basel) on 2021 Nov 18 by Hae Hyun Hwang, Hee Jeong Jeong, et al..PMID:34830928 , , (2021)

[PMID:34830928](#)

et al., Focal adhesion kinase signaling is necessary for the hydrogen sulfide-enhanced proliferation, migration and invasion of HTR8/SVneo human trophoblasts, , (2022)

[PMID:](#)

et al., Isobutyric acid promotes colorectal cancer metastasis through activating RACK1 In Cancer Sci On2023 OctbyJinglian Chen , Jiali Tang et al..PMID:37519194, , (2023)

[PMID:37519194](#)

et al., Focal adhesion kinase signaling is necessary for the hydrogen sulfide-enhanced proliferation, migration, and invasion of HTR8/SVneo human

trophoblastsInOnby et al..PMID:, , (2023)

PMID:

el at., FAK downregulation suppresses stem-like properties and migration of human colorectal cancer cellsIn PLoS OneOn2023 Apr 21byChunyan Xu? ,?Wenlu Zhang et al..PMID:37083591, , (2023)

PMID:37083591

Tomoaki Suzuki;Ken Kadoya;Takeshi Endo;Miwako Yamasaki;Masahiko Watanabe;Norimasa Iwasaki el at., GFR α 1 Promotes Axon Regeneration after Peripheral Nerve Injury by Functioning as a Ligand., , (2025)

PMID:39630029

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