Product Datasheet

Src(Phospho-Tyr529) Antibody

Catalog No: #11153

Package Size: #11153-1 50ul #11153-2 100ul

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

Description

Product Name	Src(Phospho-Tyr529) 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 IHC IF
Species Reactivity	Human;Mouse;Rat
Specificity	The antibody detects endogenous level of Src only when phosphorylated at tyrosine 529.
Immunogen Type	Peptide-KLH
Immunogen Description	Peptide sequence around phosphorylation site of tyrosine 529 (P-Q-Y(p)-Q-P) derived from Human Src.
Conjugates	Unconjugated
Target Name	Src
Modification	Phospho
Other Names	C-SRC; SRC1;
Accession No.	Swiss-Prot: P12931NCBI Protein: NP_005408.1
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

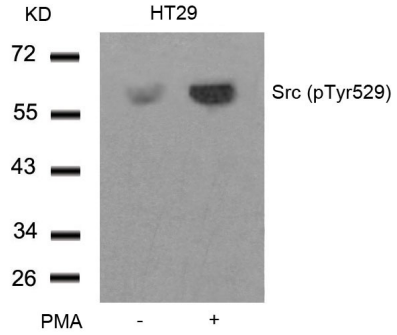
Predicted MW: 60kd

Western blotting: 1:500~1:1000

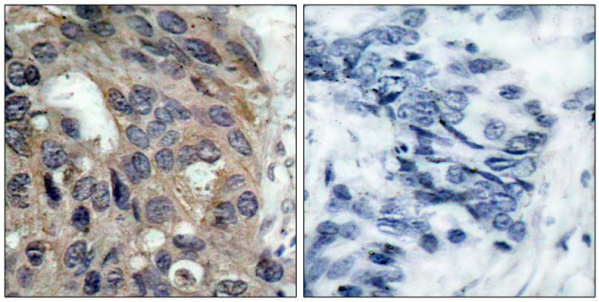
Immunohistochemistry: 1:50~1:100

Immunofluorescence: 1:100~1:200

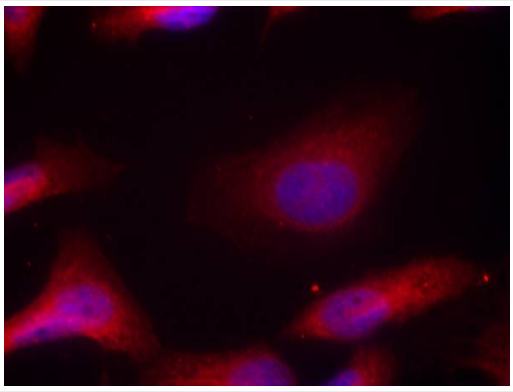
Images



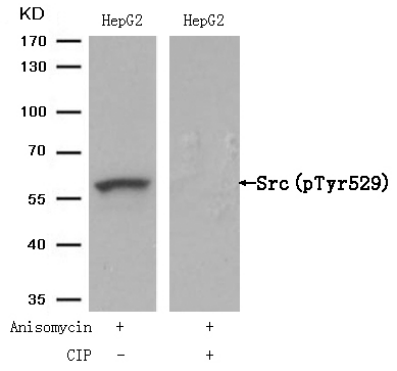
Western blot analysis of extracts from HT29 cells untreated or treated with PMA using Src(Phospho-Tyr529) Antibody #11153.



Immunohistochemical analysis of paraffin-embedded human breast carcinoma tissue using Src(Phospho-Tyr529) Antibody #11153(left) or the same antibody preincubated with blocking peptide(right).



Immunofluorescence staining of methanol-fixed Hela cells using Src(Phospho-Tyr529) Antibody #11153.



Western blot analysis of extracts from HepG2 cells, treated with Anisomycin or calf intestinal phosphatase (CIP), using Src (Phospho-Tyr529) Antibody #11153.

Background

proto-oncogenic cytoplasmic tyrosine kinase of the SRC family. Highly expressed in certain fully differentiated cells such as neurons, platelets and macrophages. Phosphorylation of an activation loop tyrosine activates the enzyme; phosphorylation of a tyrosine in the C-terminus by Csk inhibits the enzyme.

Pyper J.M., (1985) Mol. Cell. Biol. 5:831-838

Pyper J.M.(1990) Mol. Cell. Biol. 10:2035-2040

Xu W., (1997).Nature 385:595-602

Benes C.H., (2005) Cell 121:271-280

Published Papers

Yanhua Zheng, Yan Xia, Xiang Gao el at., FAK Phosphorylation by ERK Primes Ras-Induced Tyrosine Dephosphorylation of FAK Mediated by PIN1 and PTP-PEST., Molecular Cell, 35(1):11η— C25(2009)

PMID:19595712

el at., FAK phosphorylation by ERK primes ras-induced tyrosine dephosphorylation of FAK mediated by PIN1 and PTP-PEST. In Mol Cell on 2009 Jul 10 by Yanhua Zheng, Yan Xia, et al..PMID:19595712, , (2009)

PMID:19595712

el at., Identification of Demethylincisterol A 3 as a Selective Inhibitor of Protein Tyrosine Phosphatase Shp2.In Eur J Pharmacol on 2017 Jan 15 by Chuan Chen , Fan Liang,et al..PMID: 27939989, , (2017)

PMID:27939989

el at., Discovery of a novel inhibitor of the protein tyrosine phosphatase Shp2.In Sci Rep on 2015 Dec 2 by Chuan Chen , Mengmeng Cao et al..PMID: 26626996 , , (2015)

PMID:26626996

el at., Neuronal deletion of GSK3ε°Y increases microtubule speed in the growth cone and enhances axon regeneration via CRMP-2 and independently of MAP1B and CLASP2.In MC Biol on 2014 Jun 12 by Mθ°©rcia A Liz, Fernando M Mar et al..PMID: 24923837, , (2014)

PMID:24923837

Xiaoyu Chen;Chengxia Shu;Wenqiang Li;Qiangqiang Hou;Guangmei Luo;Kexin Yang;Xiaoxing Wu el at., Discovery of a Novel Src Homology-2 Domain Containing Protein Tyrosine Phosphatase-2 (SHP2) and Cyclin-Dependent Kinase 4 (CDK4) Dual Inhibitor for the Treatment of Triple-Negative Breast Cancer, , (2022)

PMID:

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