Product Datasheet

PAK1 Polyclonal Antibody

Catalog No: #21160

Package Size: #21160-1 50ul #21160-2 100ul

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

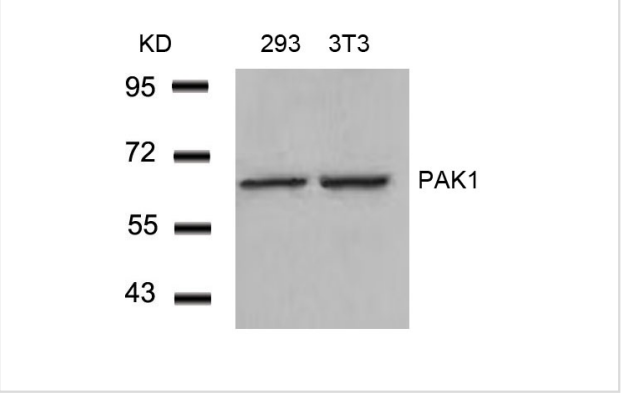
Description

Product Name	PAK1 Polyclonal Antibody
Host Species	Rabbit
Clonality	Polyclonal
Purification	Antibodies were produced by immunizing rabbits with synthetic peptide and KLH conjugates. Antibodies were purified by affinity-chromatography using epitope-specific peptide.
Applications	WB;IHC;IF;ELISA
Species Reactivity	Human;Mouse;Rat
Specificity	The antibody detects endogenous level of total PAK1protein.
Immunogen Type	Peptide-KLH
Immunogen Description	Peptide sequence around aa. 210~214 (P-V-T-P-T) derived from Human PAK1.
Conjugates	Unconjugated
Target Name	PAK1
Other Names	p21-activated kinase 1
Accession No.	Swiss-Prot: Q13153NCBI Protein: NP_001122092.1
Calculated MW	61kDa
SDS-PAGE MW	61-68kDa
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.

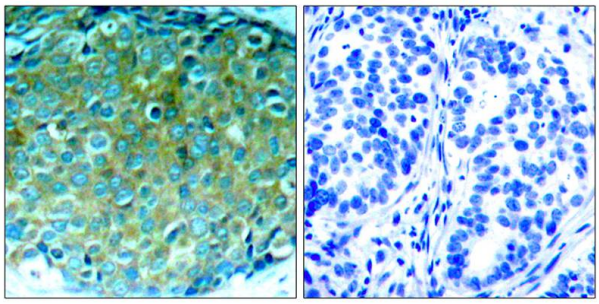
Application Details

WB 1:500-1:2000; IHC 1:100-1:300; IF 1:100-1:300;ELISA 1:5000-1:20000;

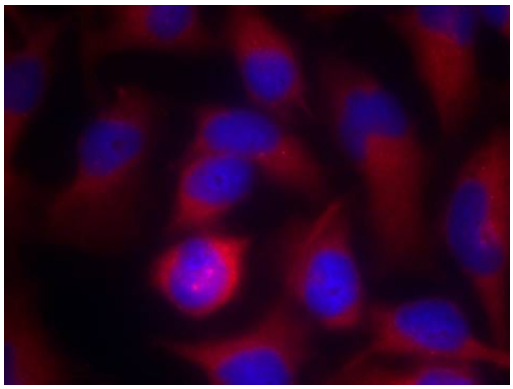
Images



Western blot analysis of extracts from 293 and 3T3 cells using PAK1(Ab-212) Antibody #21160.



Immunohistochemical analysis of paraffin-embedded human breast carcinoma tissue using PAK1(Ab-212) Antibody #21160(left) or the same antibody preincubated with blocking peptide(right).



Immunofluorescence staining of methanol-fixed Hela cells using PAK1(Ab-212) Antibody #21160.

Background

The activated kinase acts on a variety of targets. Likely to be the GTPase effector that links the Rho-related GTPases to the JNK MAP kinase pathway. Activated by CDC42 and RAC1. Involved in dissolution of stress fibers and reorganization of focal complexes. Involved in regulation of microtubule biogenesis through phosphorylation of TBCB. Activity is inhibited in cells undergoing apoptosis, potentially due to binding of CDC2L1 and CDC2L2.

Alexander K, et al. (2004) Mol Cell Biol; 24: 2808-2819

Thiel DA, et al. (2002) Curr Biol; 12:1227-1232

Rashid T, et al. (2001) J. Biol. Chem; 276: 49043 - 49052.

Published Papers

Bingyuan Wang, Wei Ma, Xiaoling Xu el at., Phosphorylation of histone H3 on Ser10 by auto-phosphorylated PAK1 is not essential for chromatin condensation and meiotic progression in porcine oocytes, Journal of Animal Science and Biotechnology, 4(1):13(2013)

PMID:23521812

el at., PAK1 Regulates Spindle Microtubule Organization During Oocyte Meiotic Maturation.In Front Biosci (Elite Ed) on 2010 Jun 1 by Sheng-Li Lin , Shu-Tao Qi,et al..PMID: 20515799, , (2010)

PMID:20515799

el at., Uptake of Shigaı ζ• 'oxigenic Escherichia coliı ε °ubAB by HeLa cells requires an actinı ?and lipid raftı ζ• ependent pathway.In Cell Microbiol on 2014 Oct by Sayaka Nagasawa 1 , Kohei Ogura et al..PMID:24844382, , (2014)

PMID:24844382

el at., PAK1 Is Involved in the Spindle Assembly during the First Meiotic Division in Porcine OocytesInInt J Mol SciOn2023 Jan 6byLei Peng?1,?Yijing He et al..PMID: 36674642, , (2023)

PMID:36674642

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