

PAK1(Ab-212) Antibody

Catalog No: #21160

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

Description

Product Name	PAK1(Ab-212) 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
Species Reactivity	Hu Ms Rt
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
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

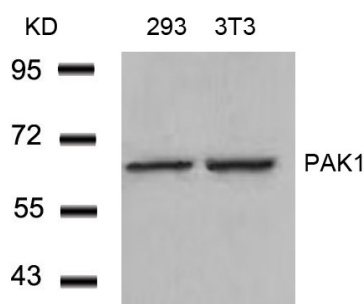
Predicted MW: 68kd

Western blotting: 1:500~1:1000

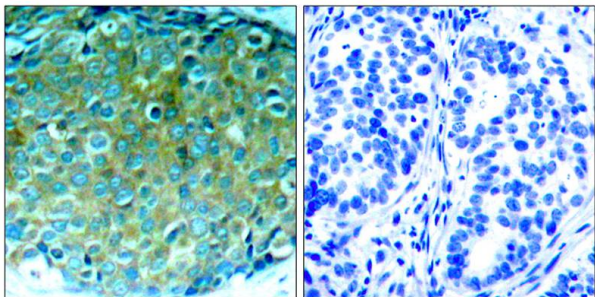
Immunohistochemistry: 1:50~1:100

Immunofluorescence: 1:100~1:200

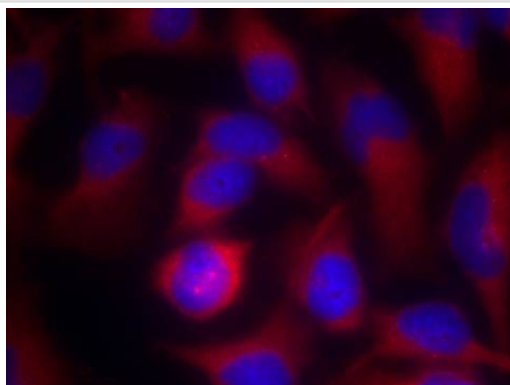
Images



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 et al., 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](#)

et al., 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](#)

et al., Uptake of Shiga toxin by *Escherichia coli* requires an actin and lipid raft dependent pathway. In Cell Microbiol on 2014 Oct by Sayaka Nagasawa , Kohei Ogura et al.. PMID:24844382 , (2014)

[PMID:24844382](#)

et al., PAK1 Is Involved in the Spindle Assembly during the First Meiotic Division in Porcine Oocytes. In Int J Mol Sci on 2023 Jan 6 by Lei Peng , Yijiang 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.