Datasheet for ABIN392432

anti-PAK1 antibody (AA 401-430)

3 Images

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Overview

Quantity:	400 µL
Target:	PAK1
Binding Specificity:	AA 401-430
Reactivity:	Human
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This PAK1 antibody is un-conjugated
Application:	Western Blotting (WB), Immunofluorescence (IF), Immunohistochemistry (Paraffin-embedded Sections) (IHC (p))

Product Details

Immunogen:	This PAK1 antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 401-430 amino acids from human PAK1.
Clone:	RB11382
Isotype:	Ig Fraction
Predicted Reactivity:	B, M, Rat, Rb, X
Purification:	This antibody is purified through a protein A column, followed by peptide affinity purification.

Target Details

Target:	PAK1

Target Details

Alternative Name:	PAK1 (PAK1 Products)
Background:	PAK1, a member of the STE20 subfamily of Ser/Thr protein kinases, acts on a variety of targets. It is likely to be the GTPase effector that links the Rho-related GTPases to the JNK MAP kinase pathway. Activity is inhibited in cells undergoing apoptosis, potentially due to binding of CDC2L1 and CDC2L2. The protein interacts tightly with GTP-bound but not GDP-bound CDC42/P21 and RAC1. PAK1 binds to the caspase-cleaved p110 isoform of CDC2L1 and CDC2L2, p110C, but not the full-length proteins. It is a component of cytoplasmic complexes, which also contain PXN, ARHGEF6 and GIT1. The protein is autophosphorylated when activated by CDC42/p21. Structurally, the PAK1 contains 1 CRIB domain.
Molecular Weight:	60647
Gene ID:	5058
NCBI Accession:	NP_001122092, NP_002567
UniProt:	Q13153
Pathways:	MAPK Signaling, RTK Signaling, TCR Signaling, Fc-epsilon Receptor Signaling Pathway, Intracellular Steroid Hormone Receptor Signaling Pathway, Regulation of Intracellular Steroid Hormone Receptor Signaling, Skeletal Muscle Fiber Development, CXCR4-mediated Signaling Events, Signaling Events mediated by VEGFR1 and VEGFR2, Signaling of Hepatocyte Growth Factor Receptor, Embryonic Body Morphogenesis

Application Details

Application Notes:	IF: 1:10~50. WB: 1:1000. IHC-P: 1:10~50
Restrictions:	For Research Use only

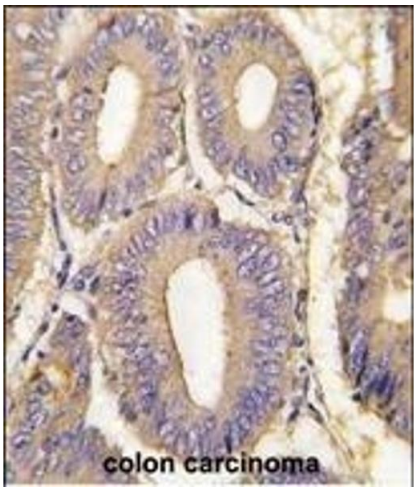
Handling

Format:	Liquid
Buffer:	Purified polyclonal antibody supplied in PBS with 0.09 % (W/V) sodium azide.
Preservative:	Sodium azide
Precaution of Use:	This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.
Storage:	4 °C,-20 °C
Storage Comment:	Maintain refrigerated at 2-8 °C for up to 6 months. For long term storage store at -20 °C in small

Handling

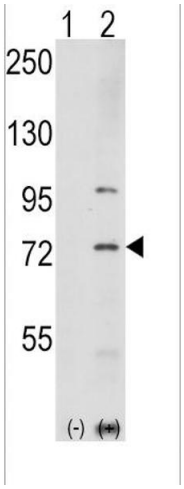
	aliquots to prevent freeze-thaw cycles.
Expiry Date:	6 months

Images



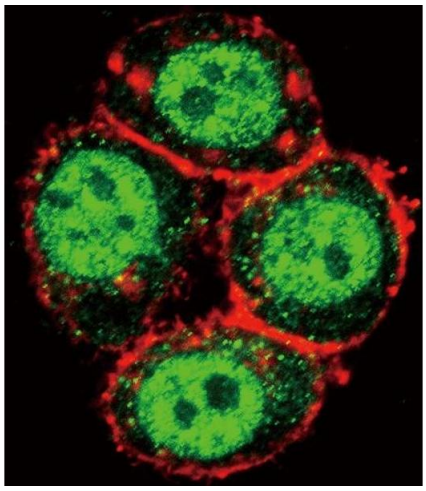
Immunohistochemistry (Paraffin-embedded Sections)

Image 1. Formalin-fixed and raffin-embedded human colon carcinoma tissue reacted with K1 Antibody (ABIN392432 and ABIN2842032) , which was peroxidase-conjugated to the secondary antibody, followed by DAB staining. This data demonstrates the use of this antibody for immunohistochemistry, clinical relevance has not been evaluated.



Western Blotting

Image 2. Western blot analysis of K1 (arrow) using rabbit polyclonal K1 Antibody (ABIN392432 and ABIN2842032). 293 cell lysates (2 µg/lane) either nontransfected (Lane 1) or transiently transfected with the K1 gene (Lane 2) (Origene Technologies).



Immunofluorescence

Image 3. Confocal immunofluorescent analysis of K1 Antibody (ABIN392432 and ABIN2842032) with Hela cell followed by Alexa Fluor 488-conjugated goat anti-rabbit IgG (green). Actin filaments have been labeled with Alexa Fluor 555 phalloidin (red).