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Datasheet for ABIN3032114 anti-PAK1 antibody (AA 401-430)

5 Images



Overview

Quantity:	0.4 mL
Target:	PAK1
Binding Specificity:	AA 401-430
Reactivity:	Human
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This PAK1 antibody is un-conjugated
Application:	Western Blotting (WB), Immunohistochemistry (IHC), ELISA, Immunofluorescence (IF)

Product Details

Immunogen:	A portion of amino acids 401-430 from the human protein was used as the immunogen for this PAK1 antibody.
lsotype:	Ig Fraction
Cross-Reactivity (Details):	Expected species reactivity: Mouse, Rat, Bovine, Rabbit, Xenopus
Purification:	Antigen affinity purified

Target Details

Target:	PAK1
Alternative Name:	PAK1 (PAK1 Products)
Background:	PAK1, a member of the STE20 subfamily of Ser/Thr protein kinases, acts on a variety of targets.

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	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.
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:	Titration of the PAK1 antibody may be required due to differences in protocols and secondary/substrate sensitivity.\. Western blot: 1:1000,Immunofluorescence: 1:10-1:50,IHC (Paraffin): 1:10-1:50
Restrictions:	For Research Use only
Handling	
Format:	Liquid
Buffer:	In 1X PBS, pH 7.4, with 0.09 % 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:	-20 °C
Storage Comment:	Aliquot the PAK1 antibody and store frozen at -20°C or colder. Avoid repeated freeze-thaw cycles.

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Immunofluorescence

Image 1. Confocal immunofluorescent analysis of PAK1 antibody with HeLa cells followed by Alexa Fluor 488-conjugated goat anti-rabbit IgG (green). Actin filaments have been labeled with Alexa Fluor 555 Phalloidin (red).

Immunohistochemistry

Image 2. IHC analysis of FFPE human colon carcinoma tissue stained with PAK1 antibody

Western Blotting

Image 3. Western blot analysis of PAK1 antibody and 293 cell lysate either nontransfected (Lane 1) or transiently transfected with the PAK1 gene (2).

Please check the product details page for more images. Overall 5 images are available for ABIN3032114.

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