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anti-PAK1 antibody (pThr212)



Images



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Quantity:	100 μL
Target:	PAK1
Binding Specificity:	pThr212
Reactivity:	Human, Rat, Mouse
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This PAK1 antibody is un-conjugated
Application:	Western Blotting (WB), Immunohistochemistry (IHC), ELISA, Immunofluorescence (IF), Immunocytochemistry (ICC)

Product Details

Immunogen:	A synthesized peptide derived from human PAK1 around the phosphorylation site of Thr212.
Isotype:	IgG
Specificity:	Phospho-PAK1 (Thr212) Antibody detects endogenous levels of PAK1 only when phosphorylated at Threonine 212.
Predicted Reactivity:	Pig,Bovine,Horse,Sheep,Rabbit,Dog
Purification:	The antibody is from purified rabbit serum by affinity purification via sequential chromatography on phospho- and non-phospho-peptide affinity columns.

Target Details

Target Details	
Alternative Name:	PAK1 (PAK1 Products)
Background:	Description: Protein kinase involved in intracellular signaling pathways downstream of integrins
	and receptor-type kinases that plays an important role in cytoskeleton dynamics, in cell
	adhesion, migration, proliferation, apoptosis, mitosis, and in vesicle-mediated transport
	processes. Can directly phosphorylate BAD and protects cells against apoptosis. Activated by
	interaction with CDC42 and RAC1. Functions as GTPase effector that links the Rho-related
	GTPases CDC42 and RAC1 to the JNK MAP kinase pathway. Phosphorylates and activates
	MAP2K1, and thereby mediates activation of downstream MAP kinases. Involved in the
	reorganization of the actin cytoskeleton, actin stress fibers and of focal adhesion complexes.
	Phosphorylates the tubulin chaperone TBCB and thereby plays a role in the regulation of
	microtubule biogenesis and organization of the tubulin cytoskeleton. Plays a role in the
	regulation of insulin secretion in response to elevated glucose levels. Part of a ternary complex
	that contains PAK1, DVL1 and MUSK that is important for MUSK-dependent regulation of AChR
	clustering during the formation of the neuromuscular junction (NMJ). Activity is inhibited in
	cells undergoing apoptosis, potentially due to binding of CDC2L1 and CDC2L2. Phosphorylates
	MYL9/MLC2. Phosphorylates RAF1 at 'Ser-338' and 'Ser-339' resulting in: activation of RAF1,
	stimulation of RAF1 translocation to mitochondria, phosphorylation of BAD by RAF1, and RAF1
	binding to BCL2. Phosphorylates SNAI1 at 'Ser-246' promoting its transcriptional repressor
	activity by increasing its accumulation in the nucleus. In podocytes, promotes NR3C2 nuclear
	localization. Required for atypical chemokine receptor ACKR2-induced phosphorylation of
	LIMK1 and cofilin (CFL1) and for the up-regulation of ACKR2 from endosomal compartment to
	cell membrane, increasing its efficiency in chemokine uptake and degradation. In synapses,
	seems to mediate the regulation of F-actin cluster formation performed by SHANK3, maybe
	through CFL1 phosphorylation and inactivation. Plays a role in RUFY3-mediated facilitating
	gastric cancer cells migration and invasion (PubMed:25766321).
	Gene: PAK1
Molecular Weight:	65kDa
Gene ID:	5058
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

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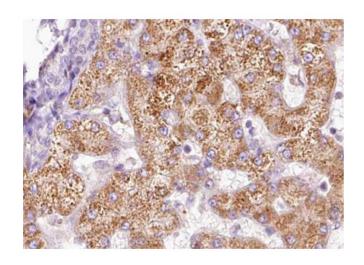
Factor Receptor, Embryonic Body Morphogenesis

Events, Signaling Events mediated by VEGFR1 and VEGFR2, Signaling of Hepatocyte Growth

Application Details

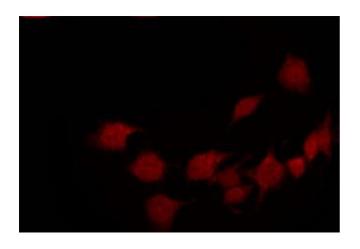
Application Notes:	WB 1:500-1:2000, IHC 1:50-1:200, IF/ICC 1:100-1:500, ELISA(peptide) 1:20000-1:40000
Restrictions:	For Research Use only
Handling	
Format:	Liquid
Concentration:	1 mg/mL
Buffer:	Rabbit IgG in phosphate buffered saline, pH 7.4, 150 mM NaCl, 0.02 % sodium azide and 50 % glycerol.
Preservative:	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:	Store at -20 °C. Stable for 12 months from date of receipt.
Expiry Date:	12 months

Images



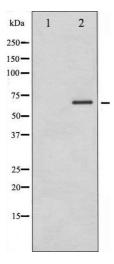
Immunohistochemistry

Image 1. ABIN6267633 at 1/100 staining human liver carcinoma tissue sections by IHC-P. The tissue was formaldehyde fixed and a heat mediated antigen retrieval step in citrate buffer was performed. The tissue was then blocked and incubated with the antibody for 1.5 hours at 22°C. An HRP conjugated goat anti-rabbit antibody was used as the secondary.



Immunofluorescence (fixed cells)

Image 2. ABIN6267633 staining 293 by IF/ICC. The sample were fixed with PFA and permeabilized in 0.1% Triton X-100,then blocked in 10% serum for 45 minutes at 25°C. The primary antibody was diluted at 1/200 and incubated with the sample for 1 hour at 37°C. An Alexa Fluor 594 conjugated goat anti-rabbit IgG (H+L) Ab, diluted at 1/600, was used as the secondary antibody.



Western Blotting

Image 3. Western blot analysis of PAK1 phosphorylation expression in etoposide treated 293 whole cell lysates, The lane on the left is treated with the antigen-specific peptide.

Please check the product details page for more images. Overall 5 images are available for ABIN6256507.