



PAK α / β / γ Monoclonal Antibody

Catalog No	YP-mAb-14894
Isotype	IgG
Reactivity	Human;Mouse;Rat
Applications	WB
Gene Name	PAK1/PAK2/PAK3
Immunogen	The antiserum was produced against synthesized peptide derived from human PAK1/2/3. AA range:391-440
Specificity	PAK α / β / γ Monoclonal Antibody detects endogenous levels of PAK α / β / γ protein.
Formulation	Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% sodium azide.
Source	Monoclonal, Mouse,IgG
Purification	The antibody was affinity-purified from mouse antiserum by affinity-chromatography using epitope-specific immunogen.
Dilution	WB 1:500-1:2000
Concentration	1 mg/ml
Purity	≥90%
Storage Stability	-20°C/1 year
Synonyms	Alpha PAK;Beta PAK;bPAK;CDKN1A;Gamma PAK;hPAK3;MRX3;MRX47;Oligophrenin 3;OPHN3;P21 (CDKN1A) activated kinase 2;P21 (CDKN1A) activated kinase 3;p21 activated kinase 1;p21 activated kinase 2;p21 activated kinase 3;P21 protein (Cdc42/Rac) activated kinase 1;P21 protein (Cdc42/Rac) activated kinase 2;P21 protein (Cdc42/Rac) activated kinase 3;P21/Cdc42/Rac1 activated kinase 1 (STE2 homolog;yeast);P21/Cdc42/Rac1 activated kinase 1 (yeast Ste2 related);P58;P65 PAK;PAK 2;PAK 3;PAK1;PAK2;PAK3;PAK3beta;PAK65;PAKalpha;PAKgamma;S6/H4 kinase;Serine/threonine protein kinase PAK 1;Serine/threonine protein kinase PAK 2;Serine/threonine protein kinase PAK 3;Serine/threonine protein kinase PAK1;Serine/threonine protein kinase PAK2;Serine/threonine protein kinase PAK3;STE2 homolog;yeast;PAK1/2/3;PAK1/PAK2/PAK3;Serine/threonine-protein kinase PAK 1;Alpha-PAK;p21-activated kinase 1;PAK-1;p65-PAK;Serine/threonine-protein kinase PAK 2;Gamma-PAK;p21-activated kinase 2;PAK-2;Serine/threonine-p
Observed Band	62kD
Calculated Molecular Weight	62kD
Cell Pathway	Cytoplasm . Cell junction, focal adhesion . Cell projection, lamellipodium . Cell membrane . Cell projection, ruffle membrane . Cell projection, invadopodium . Nucleus, nucleoplasm . Chromosome . Cytoplasm, cytoskeleton, microtubule

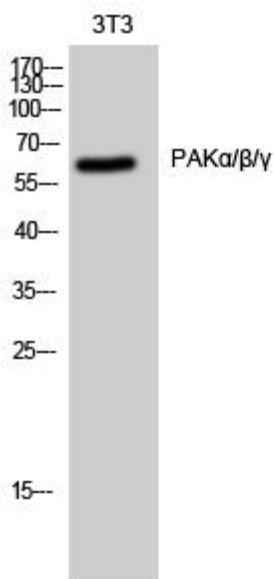


organizing center, centrosome . Colocalizes with RUFY3, F-actin and other core migration components in invadopodia at the cell periphery (PubMed:25766321). Recruited to the cell membrane by interaction with CDC42 and RAC1. Recruited to focal adhesions upon activation. Colocalized with CIB1 within membrane ruffles during cell spreading upon readhesion to fibronectin. Upon DNA damage, translocates to the nucleoplasm when phosphorylated at Thr-212 where is co-recruited with MORC2 on damaged chromatin (PubMed:23260667). Localization to the centrosome does not depen

Tissue Specificity	Overexpressed in gastric cancer cells and tissues (at protein level) (PubMed:25766321).
Function	catalytic activity:ATP + a protein = ADP + a phosphoprotein., cofactor:Magnesium.,enzyme regulation:Activated by binding small G proteins. Binding of GTP-bound CDC42 or RAC1 to the autoregulatory region releases monomers from the autoinhibited dimer, enables phosphorylation of Thr-423 and allows the kinase domain to adopt an active structure. Also activated by binding to GTP-bound CDC42, independent of the phosphorylation state of Thr-423. Phosphorylation of Thr-84 by OXSR1 inhibits this activation.,function: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 apop
Background	This gene encodes a family member of serine/threonine p21-activating kinases, known as PAK proteins. These proteins are critical effectors that link RhoGTPases to cytoskeleton reorganization and nuclear signaling, and they serve as targets for the small GTP binding proteins Cdc42 and Rac. This specific family member regulates cell motility and morphology. Alternatively spliced transcript variants encoding different isoforms have been found for this gene. [provided by RefSeq, Apr 2010],
matters needing attention	Avoid repeated freezing and thawing!
Usage suggestions	This product can be used in immunological reaction related experiments. For more information, please consult technical personnel.



Products Images



Western Blot analysis of various cells using PAKα /β /
γ Monoclonal Antibody