



PAK5/6 Monoclonal Antibody

Catalog No	YP-mAb-14892
Isotype	IgG
Reactivity	Human;Mouse;Rat
Applications	WB
Gene Name	PAK6/PAK7
Immunogen	The antiserum was produced against synthesized peptide derived from human PAK5/6. AA range:566-615
Specificity	PAK5/6 Monoclonal Antibody detects endogenous levels of PAK5/6 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	CDKN1A activated kinase 6;EC 2.7.1.37;p21 activated protein kinase 6;p21 protein (Cdc42/Rac)-activated kinase 6;p21(CDKN1A) activated kinase 6;p21-activated kinase 6;p21activated kinase 6;PAK 5;PAK 6;PAK-5;PAK-6;PAK5;Pak6;PAK6_HUMAN;Serine threonine protein kinase PAK 6;Serine/threonine protein kinase PAK 6;Serine/threonine protein kinase PAK6;Serine/threonine-protein kinase PAK 6;EC 2.7.11.1;KIAA1264;MGC26232;p21 activated kinase 7;p21 protein (Cdc42/Rac)-activated kinase 7;p21(CDKN1A) activated kinase 7;p21-activated kinase 5;p21-activated kinase 7;PAK 7;PAK-7;PAK7;PAK7_HUMAN;Protein kinase PAK5;Serine/threonine protein kinase PAK 7;Serine/threonine-protein kinase PAK 7;PAK5/6;PAK6/PAK7;Serine/threonine-protein kinase PAK 6/7
Observed Band	75kD
Calculated Molecular Weight	75kD
Cell Pathway	Mitochondrion. Cytoplasm. Nucleus. Shuttles between the nucleus and the mitochondria, and mitochondrial localization is essential for the role in cell survival.
Tissue Specificity	Predominantly expressed in brain.



Function

catalytic activity:ATP + a protein = ADP + a phosphoprotein.,function:The activated kinase acts on a variety of targets.,PTM:Autophosphorylated when activated by CDC42/p21.,similarity:Belongs to the protein kinase superfamily. STE Ser/Thr protein kinase family. STE20 subfamily.,similarity:Contains 1 CRIB domain.,similarity:Contains 1 protein kinase domain.,subunit:Interacts tightly with GTP-bound but not GDP-bound CDC42/p21 and RAC1.,tissue specificity:Predominantly expressed in brain.,

Background

The protein encoded by this gene is a member of the PAK family of Ser/Thr protein kinases. PAK family members are known to be effectors of Rac/Cdc42 GTPases, which have been implicated in the regulation of cytoskeletal dynamics, proliferation, and cell survival signaling. This kinase contains a CDC42/Rac1 interactive binding (CRIB) motif, and has been shown to bind CDC42 in the presence of GTP. This kinase is predominantly expressed in brain. It is caMABLE of promoting neurite outgrowth, and thus may play a role in neurite development. This kinase is associated with microtubule networks and induces microtubule stabilization. The subcellular localization of this kinase is tightly regulated during cell cycle progression. Alternatively spliced transcript variants encoding the same protein have been described. [provided by RefSeq, Jul 2008],

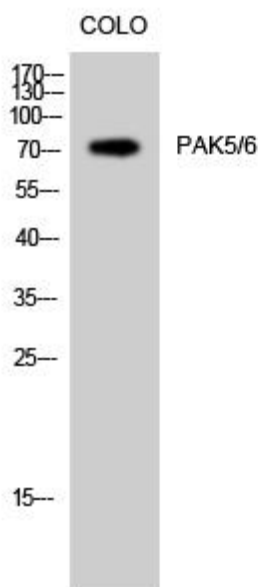
matters needing attention

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 PAK5/6 Monoclonal Antibody