



PAK5 Polyclonal Antibody

Catalog No	YP-Ab-14891
Isotype	IgG
Reactivity	Human;Mouse;Rat
Applications	WB;IHC;IF;ELISA
Gene Name	PAK7
Immunogen	The antiserum was produced against synthesized peptide derived from human PAK7. AA range:661-710
Specificity	PAK5 Polyclonal Antibody detects endogenous levels of PAK5 protein.
Formulation	Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% sodium azide.
Source	Polyclonal, Rabbit,IgG
Purification	The antibody was affinity-purified from rabbit antiserum by affinity-chromatography using epitope-specific immunogen.
Dilution	WB: 1/500 - 1/2000. IHC: 1/100 - 1/300. ELISA: 1/40000.. IF 1:50-200
Concentration	1 mg/ml
Purity	≥90%
Storage Stability	-20°C/1 year
Synonyms	PAK7;PAK5;Serine/threonine-protein kinase PAK 7;KIAA1264;p21-activated kinase 5;PAK-5;p21-activated kinase 7;PAK-7
Observed Band	80kD
Calculated Molecular Weight	80kD
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 capable 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],

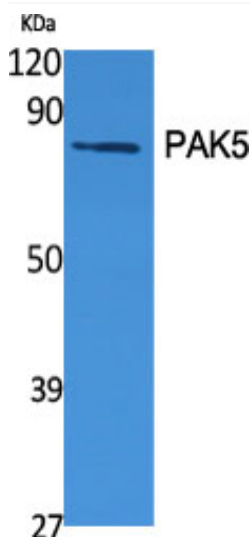
matters needing attention

Avoid repeated freezing and thawing!

Usage suggestions

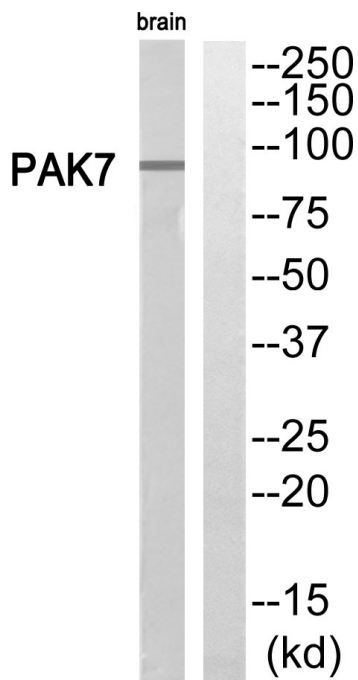
This product can be used in immunological reaction related experiments. For more information, please consult technical personnel.

Products Images

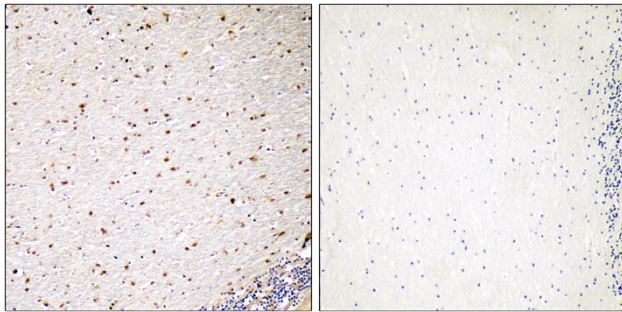


Western Blot analysis of various cells using PAK5 Polyclonal Antibody

Western Blot analysis of 3T3 cells using PAK5 Polyclonal Antibody



Western blot analysis of PAK7 Antibody. The lane on the right is blocked with the PAK7 peptide.



Immunohistochemistry analysis of paraffin-embedded human brain, using PAK7 Antibody. The lane on the right is blocked with the PAK7 peptide.