

PAK1 (PT0342R) PT® Rabbit mAb

Catalog No: YM8201

Reactivity: Human; Mouse; Rat;

Applications: WB;IHC;IF;IP;ELISA

Target: PAK1

Fields: >>MAPK signaling pathway;>>ErbB signaling pathway;>>Ras signaling

pathway;>>cAMP signaling pathway;>>Chemokine signaling pathway;>>Axon guidance;>>Hippo signaling pathway - multiple species;>>Focal adhesion;>>C-

type lectin receptor signaling pathway;>>Natural killer cell mediated

cytotoxicity;>>T cell receptor signaling pathway;>>Fc gamma R-mediated phagocytosis;>>Regulation of actin cytoskeleton;>>Epithelial cell signaling in

Helicobacter pylori infection;>>Pathogenic Escherichia coli

infection;>>Salmonella infection;>>Human immunodeficiency virus 1

infection;>>Proteoglycans in cancer;>>Renal cell carcinoma

Gene Name: PAK1

Protein Name: Serine/threonine-protein kinase PAK 1

O88643

Human Gene Id: 5058

Human Swiss Prot Q13153

No:

Mouse Swiss Prot

No:

Rat Gene Id: 29431

Rat Swiss Prot No: P35465

Specificity: endogenous

Formulation: PBS, 50% glycerol, 0.05% Proclin 300, 0.05%BSA

Source : Monoclonal, rabbit, IgG, Kappa

IHC 1:200-1:1000;WB 1:1000-1:5000;IF 1:200-1:1000;ELISA



Dilution: 1:5000-1:20000;IP 1:50-1:200;

Purification: Protein A

Storage Stability: -15°C to -25°C/1 year(Do not lower than -25°C)

Molecularweight: 61kD

Observed Band: 61kD

Cell Pathway: MAPK_ERK_Growth;MAPK_G_Protein;ErbB_HER;Chemokine;Axon

guidance; Focal adhesion; Natural killer cell mediated

cytotoxicity; T Cell Receptor; Fc gamma R-mediated phagocytosis; Regulates

Actin and Cytoskelet

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],

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

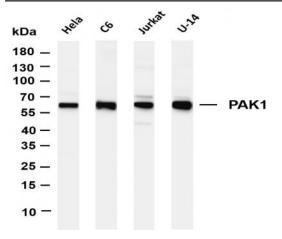
Subcellular Location:

Cytoplasm

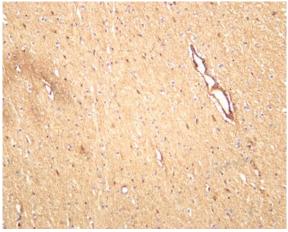
Expression: Overexpressed in gastric cancer cells and tissues (at protein level)

(PubMed:25766321).

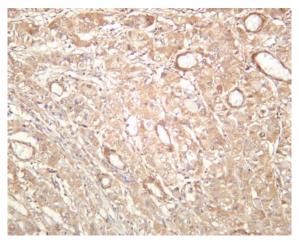
Products Images



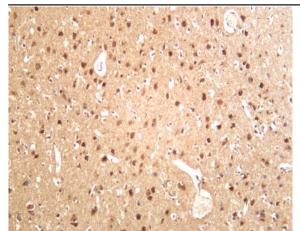
Various whole cell lysates were separated by 4-20% SDS-PAGE, and the membrane was blotted with anti-PAK1 (PT0342R) antibody. The HRP-conjugated Goat anti-Rabbit IgG(H + L) antibody was used to detect the antibody. Lane 1: Hela Lane 2: C6 Lane 3: Jurkat Lane 4: U-14 Predicted band size: 61kDa Observed band size: 61kDa



Human brain was stained with anti-PAK1 (PT0342R) rabbit antibody



Human hepatocellular carcinoma was stained with anti-PAK1 (PT0342R) rabbit antibody



Rat brain was stained with anti-PAK1 (PT0342R) rabbit antibody

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