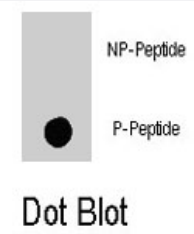
PAK1 (phospho T423) polyclonal antibody

Catalog # PAB8092 Size 400 uL

Applications



Dot Blot (Peptide)

Dot blot analysis of PAK1 (phospho T423) polyclonal antibody (Cat # PAB8092) on nitrocellulose membrane. 50 ng of Phospho-peptide or Non Phospho-peptide per dot were adsorbed. Antibody working concentrations are 0.5 ug/mL.

Specification

Product Description	Rabbit polyclonal antibody raised against synthetic phosphopeptide of PAK1.
Immunogen	Synthetic phosphopeptide (conjugated with KLH) corresponding to residues surrounding T423 of hu man PAK1.
Host	Rabbit
Reactivity	Human
Form	Liquid
Purification	Protein A purification
Recommend Usage	ELISA (1:1000) Dot Blot (1:500) The optimal working dilution should be determined by the end user.
Storage Buffer	In PBS (0.09% sodium azide)
Storage Instruction	Store at 4°C. For long term storage store at -20°C. Aliquot to avoid repeated freezing and thawing.

Note	This product contains sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which shoul d be handled by trained staff only.

Applications

- Enzyme-linked Immunoabsorbent Assay
- Dot Blot (Peptide)

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Gene Info — PAK1

Entrez GeneID	5058
Protein Accession#	NP_002567;Q13153
Gene Name	PAK1
Gene Alias	MGC130000, MGC130001, PAKalpha
Gene Description	p21 protein (Cdc42/Rac)-activated kinase 1
Omim ID	602590
Gene Ontology	Hyperlink
Gene Summary	PAK proteins are critical effectors that link RhoGTPases to cytoskeleton reorganization and nucle ar signaling. PAK proteins, a family of serine/threonine p21-activating kinases, include PAK1, PA K2, PAK3 and PAK4. These proteins serve as targets for the small GTP binding proteins Cdc42 and Rac and have been implicated in a wide range of biological activities. PAK1 regulates cell m otility and morphology. Alternativelt spliced transcript variants encoding different isoforms have be en found for this gene. [provided by RefSeq
Other Designations	STE20 homolog, yeast|p21-activated kinase 1|p21/Cdc42/Rac1-activated kinase 1 (STE20 hom olog, yeast)|p21/Cdc42/Rac1-activated kinase 1 (yeast Ste20-related)

Publication Reference

- Phosphorylation of RhoGDI by Pak1 mediates dissociation of Rac GTPase.

  DerMardirossian C, Schnelzer A, Bokoch GM.

  Molecular Cell 2004 Jul; 15(1):117.

- The Down syndrome cell adhesion molecule (DSCAM) interacts with and activates Pak.

  Li W, Guan KL.

  The Journal of Biological Chemistry 2004 Jul; 279(31):32824.

- Phosphoinositide-dependent kinase 1 and p21-activated protein kinase mediate reactive oxygen species-dependent regulation of platelet-derived growth factor-induced smooth muscle cell migration.

  Weber DS, Taniyama Y, Rocic P, Seshiah PN, Dechert MA, Gerthoffer WT, Griendling KK.

  Circulation Research 2004 May; 94(9):1219.

  Application: WB, Rat, Vascular smooth muscle cells

Pathway

- Axon guidance
- Chemokine signaling pathway
- Epithelial cell signaling in Helicobacter pylori infection
- ErbB signaling pathway
- Fc gamma R-mediated phagocytosis
- Focal adhesion
- MAPK signaling pathway
- Natural killer cell mediated cytotoxicity
- Regulation of actin cytoskeleton
- Renal cell carcinoma
- T cell receptor signaling pathway

Disease

- Carcinoma

- Esophageal Neoplasms
- HIV Infections
- Tobacco Use Disorder