

## Product datasheet for **TA323822**

### PAK1 Rabbit Polyclonal Antibody

#### Product data:

Product Type:	Primary Antibodies
Applications:	IF, IHC, WB
Recommended Dilution:	WB: 1:500-1000, IHC: 1:50-100, IF: 1:100-200
Reactivity:	Human, Mouse, Rat
Modifications:	Phospho-specific
Host:	Rabbit
Isotype:	IgG
Clonality:	Polyclonal
Immunogen:	Peptide sequence around phosphorylation site of threonine 212 (P-V-T(p)-P-T) derived from Human PAK1.
Formulation:	PBS pH7.3, 0.05% NaN <sub>3</sub> , 50% glycerol
Concentration:	lot specific
Purification:	Antigen affinity purification
Conjugation:	Unconjugated
Storage:	Store at -20°C as received.
Stability:	Stable for 12 months from date of receipt.
Predicted Protein Size:	68 kDa
Gene Name:	p21 (RAC1) activated kinase 1
Database Link:	<a href="#">NP_002567</a> <a href="#">Entrez Gene 18479 Mouse</a> <a href="#">Entrez Gene 29431 Rat</a> <a href="#">Entrez Gene 5058 Human</a> <a href="#">Q13153</a>
Background:	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 apoptosis, potentially due to binding of CDC2L1 and CDC2L2.
Synonyms:	PAKalpha

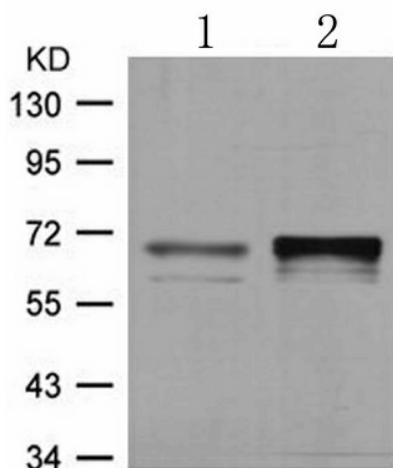


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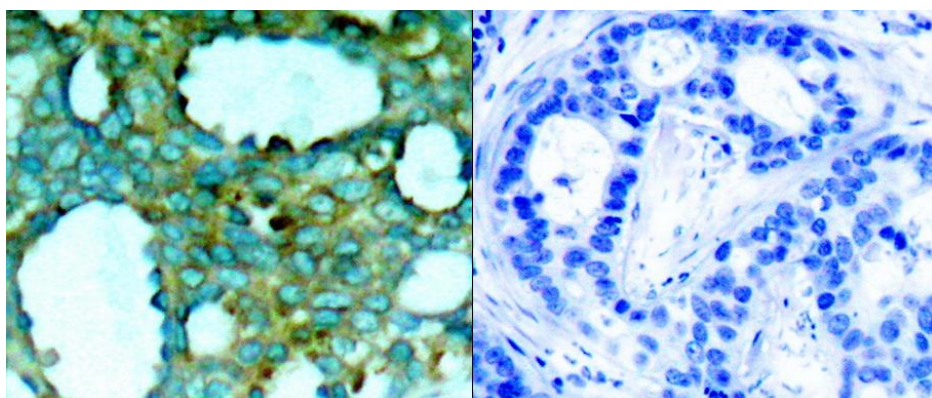
**Protein Families:** Druggable Genome, Protein Kinase, Stem cell - Pluripotency

**Protein Pathways:** 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

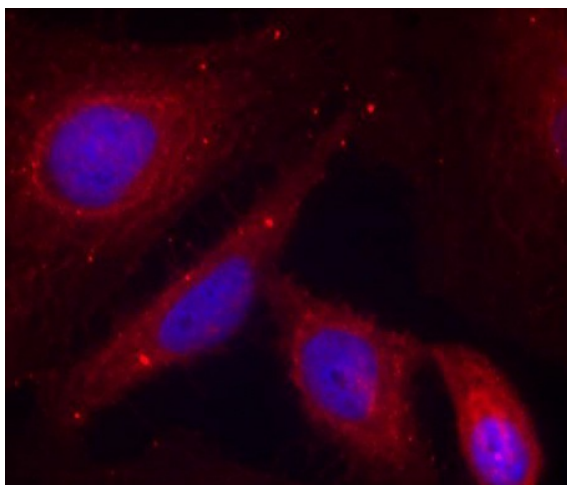
**Product images:**



Predicted band size: 68 kDa. Positive control: 293 cells untreated or treated with forskolin lysate. Recommended dilution: 1/ 500-1000. (Gel: 8%SDS-PAGE Lane 1: 293 cells untreated with forskolin lysate Lane 2: 293 cells treated with forskolin lysate Lysates: 30 ug per lane Primary antibody: 1/500 dilution Secondary antibody: Goat anti Rabbit IgG - H&L (HRP) at 1/10000 dilution Exposure time: 1 minute)



Predicted cell location: Cytoplasm; Cell membrane. Positive control: Human breast carcinoma tissue. Recommended dilution: 1/ 50-100 The image on the left is immunohistochemistry of paraffin-embedded human breast carcinoma tissue using PAK1 (Phospho-Thr212) antibody at dilution 1/50, on the right is treated with the synthetic peptide. (Original magnification:x200)



Predicted cell location: Cytoplasm; Cell membrane. Positive control: HeLa cells. Recommended dilution: 1/ 100-200. The image is immunofluorescence of methanol-fixed HeLa cells using PAK1 (Phospho-Thr212) antibody at dilution 1/100. (Original magnification:×200)