

## Product datasheet for **TA306345**

### PAK2 Rabbit Polyclonal Antibody

#### Product data:

Product Type:	Primary Antibodies
Applications:	IF, IHC, WB
Recommended Dilution:	WB: 0.5 - 1 ug/mL, ICC: 10 ug/mL, IF: 20 ug/mL
Reactivity:	Human, Mouse, Rat
Host:	Rabbit
Isotype:	IgG
Clonality:	Polyclonal
Immunogen:	PAK2 antibody was raised against a 14 amino acid peptide from near the carboxy terminus of human PAK2.
Formulation:	PBS containing 0.02% sodium azide.
Concentration:	1ug/ul
Purification:	Affinity chromatography purified via peptide column
Conjugation:	Unconjugated
Storage:	Store at -20°C as received.
Stability:	Stable for 12 months from date of receipt.
Gene Name:	p21 (RAC1) activated kinase 2
Database Link:	<a href="#">NP_002568</a> <a href="#">Entrez Gene 29432 Rat</a> <a href="#">Entrez Gene 224105 Mouse</a> <a href="#">Entrez Gene 5062 Human</a> <a href="#">Q13177</a>



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**Background:**

The p21-activated kinases (PAKs) are serine-threonine kinases that bind to the active forms of Cdc42 and Rac. They are divided into two groups, the first of which include PAK1, 2 and 3, and can be activated by Cdc42/Rac binding. Group 1 PAKs contain an autoinhibitory domain whose activity is regulated by Cdc42/Rac binding. The group 1 PAKs are known to be involved in cellular processes such as gene transcription, apoptosis, and cell morphology and motility. Much less is known about the second group, which includes PAK4, 5 and 6, and are not activated by Cdc42/Rac binding. Of the six PAK proteins, only PAK2 is ubiquitously expressed and cleaved by caspase-3. This cleavage removes the amino-terminal regulatory domain and generates a constitutively active kinase fragment. Recent experiments have shown that following cleavage, the active fragment is myristoylated and directed to the plasma membrane and membrane ruffles where it promotes cell death via increased signaling through the c-Jun N-terminal kinase pathway, but without compromising mitochondrial integrity.

**Synonyms:**

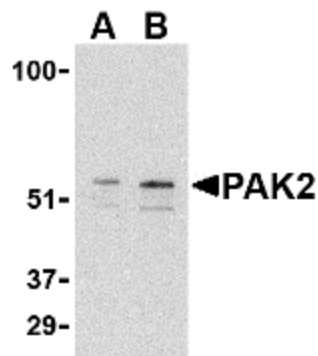
PAK65; PAKgamma

**Protein Families:**

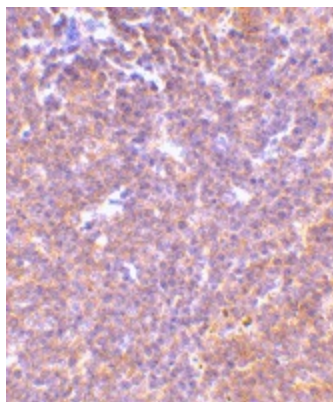
Druggable Genome, Protein Kinase

**Protein Pathways:**

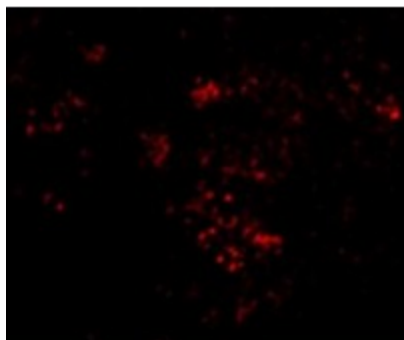
Axon guidance, ErbB signaling pathway, Focal adhesion, MAPK signaling pathway, Regulation of actin cytoskeleton, Renal cell carcinoma, T cell receptor signaling pathway

**Product images:**

Western blot analysis of PAK2 in Jurkat lysate with PAK2 antibody at (A) 0.5 and (B) 1 ug/ml.



Immunohistochemistry of PAK2 in mouse spleen tissue with PAK2 antibody at 10 ug/ml.



Immunofluorescence of PAK2 in Mouse Spleen cells with PAK2 antibody at 20 ug/mL.