

## Product datasheet for **TA392917S**

### PAK1 Rabbit Polyclonal Antibody

#### Product data:

Product Type:	Primary Antibodies
Applications:	WB
Recommended Dilution:	WB: 1:500~1:1000
Reactivity:	Human, Mouse, Rat
Host:	Rabbit
Isotype:	IgG
Clonality:	Polyclonal
Immunogen:	Synthetic phosphopeptide derived from human PAK $\alpha$ around the phosphorylation site of Thr212.
Specificity:	PAK $\alpha$ (phospho-T212) polyclonal antibody detects endogenous levels of PAK $\alpha$ protein only when phosphorylated at Thr212.
Formulation:	Rabbit IgG, 1mg/ml in PBS with 0.02% sodium azide, 50% glycerol, pH7.2
Concentration:	1mg/ml
Conjugation:	Unconjugated
Storage:	Store at 4°C short term. Aliquot and store at -20°C long term. Avoid freeze-thaw cycles.
Stability:	1 year
Predicted Protein Size:	~ 60 kDa
Gene Name:	p21 (RAC1) activated kinase 1
Database Link:	<a href="#">Entrez Gene 5058 Human Q13153</a>
Background:	Three isoforms of serine/threonine kinases, designated $\alpha$ PAK p68, $\beta$ PAK p65 and $\gamma$ PAK p62, have been shown to exhibit a high degree of sequence homology with the <i>S. cerevisiae</i> kinase Ste 20, involved in pheromone signaling. The $\alpha$ , $\beta$ and $\gamma$ PAK isoforms complex specifically with Rac1 and Cdc42 in their active GTP-bound state, inhibiting their intrinsic GTPase activity leading to their autophosphorylation. There are eight sites of autophosphorylation on $\gamma$ PAK, including Ser 19, Ser 141 and Thr 402, and phosphorylation of Ser 141 and Thr 402 is correlated with $\gamma$ PAK activation. Once phosphorylated and their affinity for Rac/Cdc42 reduced, the PAK isoforms disassociate from the complex to seek downstream substrates.

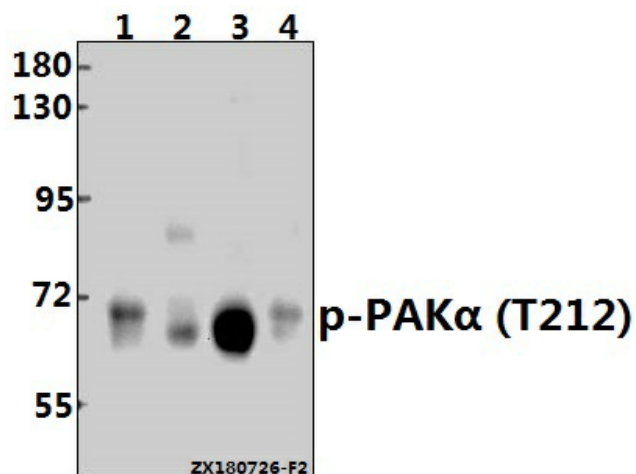


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**Synonyms:** Alpha-PAK; p21-activated kinase 1; p65-PAK; PAK-1; PAK1; PAK $\alpha$ ; Serine/threonine-protein kinase PAK 1

**Note:** For research use only, not for use in diagnostic procedure.

**Product images:**



Western blot (WB) analysis of p-PAK $\alpha$  (T212) pAb at 1:500 dilution Lane1:HeLa whole cell lysate(40ug) Lane2:A549 whole cell lysate(40ug) Lane3:C6 whole cell lysate(40ug) Lane4:AML-12 whole cell lysate(40ug)