

**PAK1/2/3 (Phospho-S144/S141/S139) polyclonal antibody**

Catalog: BS94089

Host: Rabbit

Reactivity: Human, Mouse, Rat

**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 *S. cerevisiae* 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.

**Product:**

Rabbit IgG, 1mg/ml in PBS with 0.02% sodium azide, 50% glycerol, pH7.2

**Molecular Weight:**

65 kDa

**Swiss-Prot:**

O75914(Human) Q13153(Human) Q13177(Human)  
O88643(Mouse) Q61036(Mouse) Q8CIN4(Mouse)  
P35465(Rat) Q62829(Rat) Q64303(Rat)

**Purification&Purity:**

ProA affinity purified

**Applications:**

WB:1:1,000-1:2,000

ICC:1:50-1:200

IHC:1:50-1:200

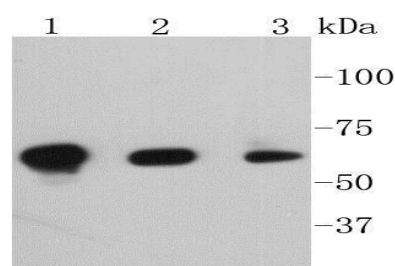
FC:1:50-1:100

**Storage&Stability:**

Store at +4 °C after thawing. Aliquot store at -20 °C or -80 °C. Avoid repeated freeze / thaw cycles.

**Specificity:**

PAK1/2/3 (Phospho-S144/S141/S139) polyclonal antibody detects endogenous levels of PAK1/2/3 protein only when phosphorylated at S144/S141/S139.

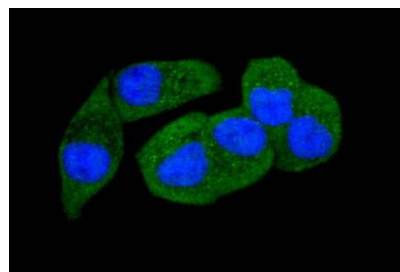
**DATA:**

Western blot analysis of Phospho-PAK1(S144)+PAK2(S141)+PAK3(S139) on different lysates using anti-Phospho-PAK1(S144)+PAK2(S141)+PAK3(S139) antibody at 1/1,000 dilution. Positive control:

Lane 1: HeLa

Lane 2: NIH/3T3

Lane 3: SH-SY-5Y



ICC staining Phospho-PAK1(S144)+PAK2(S141)+PAK3(S139) in HeLa cells (green). The nuclear counter stain is DAPI (blue). Cells were fixed in paraformaldehyde, permeabilised with 0.25% Triton X100/PBS.

**Note:**

For research use only, not for use in diagnostic procedure.

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