

**PAK1/2/3 (E417) polyclonal antibody**

Catalog: BCP01259

Host: Rabbit

Reactivity: Human,Rat,Mouse

**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:**

~ 61 kDa

**Swiss-Prot:**

Q13153/Q13177/O75914

**Purification&Purity:**

The antibody was affinity-purified from rabbit antiserum by affinity-chromatography using epitope-specific immunogen and the purity is > 95% (by SDS-PAGE).

**Applications:**

WB: 1:1000~1:2000

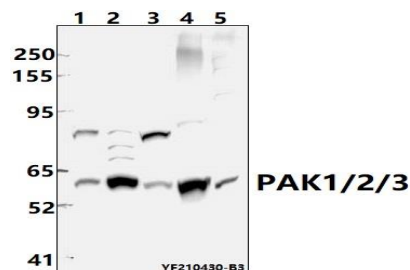
IF: 1:50~1:200

**Storage&Stability:**

Store at 4 °C short term. Aliquot and store at -20 °C long term. Avoid freeze-thaw cycles.

**Specificity:**

PAK1/2/3 (E417) polyclonal antibody detects endogenous levels of total PAK protein.

**DATA:**

Western blot (WB) analysis of PAK1/2/3 (E417) polyclonal antibody at 1:1000 dilution

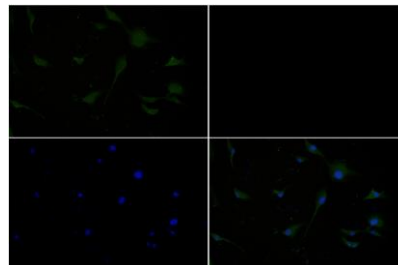
Lane1:SSGC7901 whole cell lysate(40ug)

Lane2:U-87MG whole cell lysate(40ug)

Lane3:THP-1 whole cell lysate(40ug)

Lane4:RAW264.7 whole cell lysate(40ug)

Lane5:C6 whole cell lysate(40ug)



Immunofluorescence analysis of U-87MG cells using PAK1/2/3 (E417) antibody at dilution of 1:50.

**Note:**

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