

AP01447PU-N**Polyclonal Antibody to PAK4/PAK5/PAK6 - Aff - Purified****Alternate names:**

KIAA1142, KIAA1264, PAK 4, PAK-4, PAK-5, PAK-5, PAK-6, PAK-7, PAK5, Serine/threonine-protein kinase PAK 4, Serine/threonine-protein kinase PAK 6, Serine/threonine-protein kinase PAK 7, p21-activated kinase 4, p21-activated kinase 5, p21-activated kinase 6, p21-activated kinase 7

Quantity:

0.1 mg

Concentration:

1.0 mg/ml

Background:

Three recently identified isoforms of serine/threonine kinases, designated alphaPAK p68, betaPAK p65 and gammaPAK p62, have been shown to exhibit a high degree of sequence homology with the *S. cerevisiae* kinase STE20, involved in pheromone signaling. The alpha, beta and gammaPAK isoforms complex specifically with Rac1 and Cdc42 in their active GTP bound state, inhibiting their intrinsic GTPase activity leading to their autophosphorylation. Once phosphorylated and their affinity for Rac/Cdc42 reduced, the PAK isoforms disassociate from the complex to seek downstream substrates. One such putative substrate is MEK kinase, an upstream effector of MEK4 which is involved in the JNK signaling pathway. While the PAK isoforms interact in a GTP-dependent manner with Rac1 and Cdc42, they do not interact with Rho.

Uniprot ID:[O96013](#)**NCBI:**[NP_001014831](#)**GeneID:**[10298](#)**Host:**

Rabbit

Format:**State:** Liquid purified Ig fraction (> 95% pure by SDS-PAGE).**Purification:** Affinity Chromatography using epitope-specific immunogen.**Buffer System:** Phosphate buffered saline (PBS) with 0.05% Sodium Azide as preservative, approx. pH 7.2.**Applications:****Western Blot:** 1/500-1/1000.

Other applications not tested. Optimal dilutions are dependent on conditions and should be determined by the user.

Molecular Weight:

~ 80 kDa

Specificity:

PAK4/5/6 antibody detects endogenous levels of PAK4/5/6 protein. (region surrounding Val469)

Species Reactivity:**Tested:** Human, Mouse and Rat.**Storage:**

Store the antibody undiluted at 2-8°C for one month or (in aliquots) at -20°C for longer.

Avoid repeated freezing and thawing.

Shelf life: one year from despatch.

Pictures:

Western blot (WB) analysis of PAK4/5/6 antibody (Cat.-No.: AP01447PU-N) in extracts from K562 cell treated with PMA 125ng/ml 30'.

