



# Phospho-PAK4/PAK5/PAK6 (S474/S560/S602) Antibody

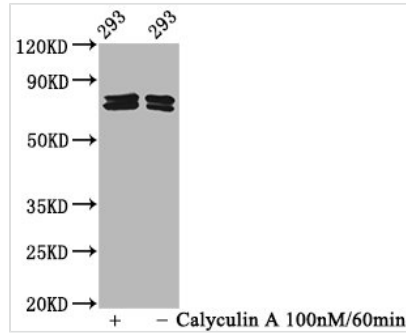
<b>Product Code</b>	CSB-RA017408A474phHU
<b>Abbreviation</b>	Serine/threonine-protein kinase PAK 4
<b>Storage</b>	Upon receipt, store at -20°C or -80°C. Avoid repeated freeze.
<b>Uniprot No.</b>	O96013/Q9P286/Q9NQJ5
<b>Immunogen</b>	A synthesized peptide derived from Human Phospho-PAK4/PAK5/PAK6 (S474/S560/S602)
<b>Species Reactivity</b>	Human
<b>Tested Applications</b>	ELISA, WB, IF; Recommended dilution: WB:1:500-1:5000, IF:1:20-1:200
<b>Relevance</b>	<p>Serine/threonine protein kinase that plays a role in a variety of different signaling pathways including cytoskeleton regulation, cell migration, growth, proliferation or cell survival. Activation by various effectors including growth factor receptors or active CDC42 and RAC1 results in a conformational change and a subsequent autophosphorylation on several serine and/or threonine residues. Phosphorylates and inactivates the protein phosphatase SSH1, leading to increased inhibitory phosphorylation of the actin binding/depolymerizing factor cofilin. Decreased cofilin activity may lead to stabilization of actin filaments. Phosphorylates LIMK1, a kinase that also inhibits the activity of cofilin. Phosphorylates integrin beta5/ITGB5 and thus regulates cell motility. Phosphorylates ARHGEF2 and activates the downstream target RHOA that plays a role in the regulation of assembly of focal adhesions and actin stress fibers. Stimulates cell survival by phosphorylating the BCL2 antagonist of cell death BAD. Alternatively, inhibits apoptosis by preventing caspase-8 binding to death domain receptors in a kinase independent manner. Plays a role in cell-cycle progression by controlling levels of the cell-cycle regulatory protein CDKN1A and by phosphorylating RAN.</p>
<b>Form</b>	Liquid
<b>Conjugate</b>	Non-conjugated
<b>Storage Buffer</b>	Rabbit IgG in phosphate buffered saline , pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol.
<b>Purification Method</b>	Affinity-chromatography
<b>Isotype</b>	Rabbit IgG
<b>Clonality</b>	Monoclonal
<b>Alias</b>	Serine/threonine-protein kinase PAK 4, p21-activated kinase 4, PAK-4, PAK4, KIAA1142
<b>Immunogen Species</b>	Homo sapiens (Human)
<b>Research Area</b>	Cell Biology



**Gene Names** PAK4/PAK5/PAK6

**Accession NO.** 2D1

**Image**

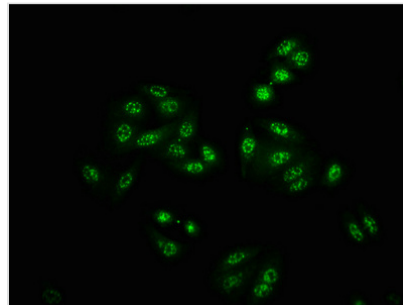


**Western Blot**

Positive WB detected in 293 whole cell lysate(treated with Calyculin A or not)  
All lanes Phospho-PAK4/PAK5/PAK6 antibody at 2.15µg/ml

**Secondary**

Goat polyclonal to rabbit IgG at 1/50000 dilution  
Predicted band size: 64,75,80 KDa  
Observed band size: 75,80 KDa



Immunofluorescence staining of HepG2 cells(treated with 50mM Calyculin A for 30min) with CSB-RA017408A474phHU at 1:100,counter-stained with DAPI. The cells were fixed in 4% formaldehyde, permeabilized using 0.2% Triton X-100 and blocked in 10% normal Goat Serum. The cells were then incubated with the antibody overnight at 4°C. The secondary antibody was Alexa Fluor 488-conjugated AffiniPure Goat Anti-Rabbit IgG (H+L).