

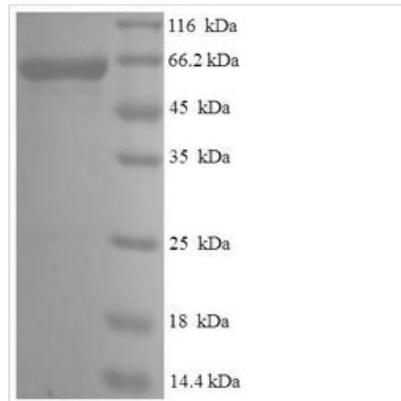


# Recombinant Human Serine/threonine-protein kinase PAK 4(PAK4)

<b>Product Code</b>	CSB-EP017408HU
<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>Storage</b>	The shelf life is related to many factors, storage state, buffer ingredients, storage temperature and the stability of the protein itself. Generally, the shelf life of liquid form is 6 months at -20°C/-80°C. The shelf life of lyophilized form is 12 months at -20°C/-80°C.
<b>Uniprot No.</b>	O96013
<b>Storage Buffer</b>	Tris-based buffer,50% glycerol
<b>Alias</b>	p21-activated kinase 4 ;PAK-4
<b>Product Type</b>	Recombinant Protein
<b>Species</b>	Homo sapiens (Human)
<b>Purity</b>	Greater than 90% as determined by SDS-PAGE.
<b>Sequence</b>	<p>MFGKRKKRVEISAPSNFEHRVHTGFDQHEQKFTGLPRQWQSLIEESARRPKP  LVDPACITSIQPGAPKTIVRGSKGAKDGALTLILLDEFENMSVTRSNSLRRDSPP  PPARARQENGMPKPPGPRSPQREPQRVSHEQFRAALQLVVDPGDPRS YLD  NFIKIGEGSTGIVCIATVRSSGKLVAVKKMDLRKQQRRELLFNEVVIMRDYQHE  NVVEMYNSYLVGDELWVMEFLEGGALTDIVTHTRMNEEQIAAVCLAVLQALS  VLHAQGVHRDIKSDSILLTHDGRVKLSDFGFCQAQVSKEVPRRKS L V G T P Y W M  APELISRLPYGPEVDIWSLIGIMVIEMVDGEPYPFNEPPLKAMKMIRDNLPPRLK  NLHKVSPSLKGFDRLLVRDPAQRATAAELLKHPFLAKAGPPASIVPLMRQNR  TR</p>
<b>Research Area</b>	Apoptosis
<b>Source</b>	E.coli



<b>Gene Names</b>	PAK4
<b>Expression Region</b>	1-426aa
<b>Notes</b>	Repeated freezing and thawing is not recommended. Store working aliquots at 4°C for up to one week.
<b>Tag Info</b>	N-terminal 6xHis-SUMO-tagged
<b>Mol. Weight</b>	63.9kDa
<b>Protein Description</b>	Full Length of Isoform 2

**Image**

(Tris-Glycine gel) Discontinuous SDS-PAGE (reduced) with 5% enrichment gel and 15% separation gel.