

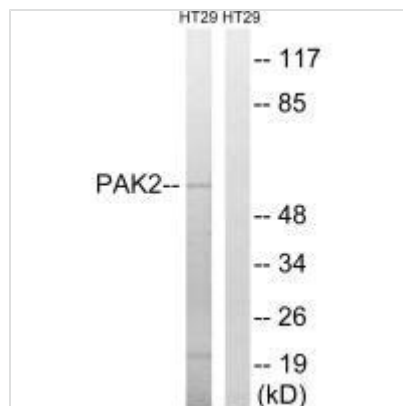


PAK2 (Ab-197) Antibody

Product Code	CSB-PA827528
Storage	Upon receipt, store at -20°C or -80°C. Avoid repeated freeze.
Uniprot No.	Q13177
Immunogen	Synthesized non-phosphopeptide derived from Human PAK2 around the phosphorylation site of serine 62 (T-R-S(p)-V-I).
Raised In	Rabbit
Species Reactivity	Human, Mouse
Specificity	The antibody detects endogenous levels of total PAK2 protein.
Tested Applications	ELISA, WB; WB: 1:500-1:3000
Relevance	Serine/threonine protein kinase that plays a role in a variety of different signaling pathways including cytoskeleton regulation, cell motility, cell cycle progression, apoptosis or proliferation. Acts as downstream effector of the small GTPases CDC42 and RAC1. Activation by the binding of active CDC42 and RAC1 results in a conformational change and a subsequent autophosphorylation on several serine and/or threonine residues. Full-length PAK2 stimulates cell survival and cell growth. Phosphorylates MAPK4 and MAPK6 and activates the downstream target MAPKAPK5, a regulator of F-actin polymerization and cell migration. Phosphorylates JUN and plays an important role in EGF-induced cell proliferation. Phosphorylates many other substrates including histone H4 to promote assembly of H3.3 and H4 into nucleosomes, BAD, ribosomal protein S6, or MBP. Additionally, associates with ARHGEF7 and GIT1 to perform kinase-independent functions such as spindle orientation control during mitosis. On the other hand, apoptotic stimuli such as DNA damage lead to caspase-mediated cleavage of PAK2, generating PAK-2p34, an active p34 fragment that translocates to the nucleus and promotes cellular apoptosis involving the JNK signaling pathway. Caspase-activated PAK2 phosphorylates MKNK1 and reduces cellular translation. Martin G.A., EMBO J. 14:1970-1978(1995). The MGC Project Team; Genome Res. 14:2121-2127(2004). Olsen J.V., Cell 127:635-648(2006).
Form	Rabbit IgG in phosphate buffered saline (without Mg ²⁺ and Ca ²⁺), pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol.
Purification Method	The antibody was affinity-purified from rabbit antiserum by affinity-chromatography using epitope-specific immunogen.
Clonality	Polyclonal
Alias	EC 2.7.11.1; gamma-PAK; kinase PAK2; P21-activated kinase 2; p21-activated kinase 2
Product Type	Polyclonal Antibody
Species	Homo sapiens (Human)


Target Names

PAK2

Image


Western blot analysis of extracts from HT-29 cells, using PAK2 (Ab-197) antibody.