



# Rabbit Anti-Human PAK4 Polyclonal Antibody (CABT-L2048)

This product is for research use only and is not intended for diagnostic use.

## PRODUCT INFORMATION

<b>Product Overview</b>	Polyclonal Antibody to p21 Protein Activated Kinase 4 (Knockout Validated)
<b>Specificity</b>	The antibody is a rabbit polyclonal antibody raised against PAK4. It has been selected for its ability to recognize PAK4 in immunohistochemical staining and western blotting.
<b>Target</b>	PAK4
<b>Immunogen</b>	Recombinant fragment corresponding to human PAK4 (Val299~Ser542)
<b>Isotype</b>	IgG
<b>Source/Host</b>	Rabbit
<b>Species Reactivity</b>	Human, Pig
<b>Purification</b>	Antigen-specific affinity chromatography followed by Protein A affinity chromatography
<b>Conjugate</b>	Unconjugated
<b>Applications</b>	WB
<b>Format</b>	Liquid
<b>Concentration</b>	Lot specific
<b>Size</b>	200 µg
<b>Buffer</b>	Supplied as solution form in 0.01M PBS with 50% glycerol, pH7.4.
<b>Preservative</b>	0.05% Proclin-300

<b>Storage</b>	Avoid repeated freeze/thaw cycles. Store at 4°C for frequent use. Aliquot and store at -20°C for 12 months.
<b>Ship</b>	4°C with ice bags

## BACKGROUND

<b>Introduction</b>	PAK proteins, a family of serine/threonine p21-activating kinases, include PAK1, PAK2, PAK3 and PAK4. PAK proteins are critical effectors that link Rho GTPases to cytoskeleton reorganization and nuclear signaling. They serve as targets for the small GTP binding proteins Cdc42 and Rac and have been implicated in a wide range of biological activities. PAK4 interacts specifically with the GTP-bound form of Cdc42Hs and weakly activates the JNK family of MAP kinases. PAK4 is a mediator of filopodia formation and may play a role in the reorganization of the actin cytoskeleton. Multiple alternatively spliced transcript variants encoding distinct isoforms have been found for this gene. [provided by RefSeq, Jul 2008]
<b>Keywords</b>	Serine/threonine-protein kinase PAK 4

## GENE INFORMATION

<b>Gene Name</b>	PAK4 p21 protein (Cdc42/Rac)-activated kinase 4 [ Homo sapiens (human) ]
<b>Official Symbol</b>	PAK4
<b>Synonyms</b>	PAK4; p21 protein (Cdc42/Rac)-activated kinase 4; serine/threonine-protein kinase PAK 4; PAK-4; p21-activated kinase 4; p21(CDKN1A)-activated kinase 4; protein kinase related to S. cerevisiae STE20, effector for Cdc42Hs;
<b>Entrez Gene ID</b>	<a href="#">10298</a>
<b>Protein Refseq</b>	NP_001014831
<b>UniProt ID</b>	<a href="#">A0A024R0J1</a>
<b>Chromosome Location</b>	19q13.2
<b>Pathway</b>	Activation of Rac; Axon guidance; CDC42 signaling events; Developmental Biology; ErbB signaling pathway; FGF signaling pathway; Focal Adhesion; Focal adhesion;
<b>Function</b>	ATP binding; protein binding; protein kinase activity; receptor signaling protein serine/threonine kinase activity;