



Rabbit Anti-Human CDK4 Polyclonal Antibody (CABT-L2016)

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

PRODUCT INFORMATION

Product Overview	Polyclonal Antibody to Cyclin Dependent Kinase 4 (Knockout Validated)
Specificity	The antibody is a rabbit polyclonal antibody raised against CDK4. It has been selected for its ability to recognize CDK4 in immunohistochemical staining and western blotting.
Target	CDK4
Immunogen	Recombinant fragment corresponding to human CDK4 (Tyr6~Leu295)
Isotype	IgG
Source/Host	Rabbit
Species Reactivity	Human, Rat
Purification	Antigen-specific affinity chromatography followed by Protein A affinity chromatography
Conjugate	Unconjugated
Applications	WB
Format	Liquid
Concentration	Lot specific
Size	200 µg
Buffer	Supplied as solution form in 0.01M PBS with 50% glycerol, pH7.4.
Preservative	0.05% Proclin-300

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

BACKGROUND

Introduction	The protein encoded by this gene is a member of the Ser/Thr protein kinase family. This protein is highly similar to the gene products of <i>S. cerevisiae</i> cdc28 and <i>S. pombe</i> cdc2. It is a catalytic subunit of the protein kinase complex that is important for cell cycle G1 phase progression. The activity of this kinase is restricted to the G1-S phase, which is controlled by the regulatory subunits D-type cyclins and CDK inhibitor p16(INK4a). This kinase was shown to be responsible for the phosphorylation of retinoblastoma gene product (Rb). Mutations in this gene as well as in its related proteins including D-type cyclins, p16(INK4a) and Rb were all found to be associated with tumorigenesis of a variety of cancers. Multiple polyadenylation sites of this gene have been reported. [provided by RefSeq, Jul 2008]
Keywords	CMM3;PSK-J3;Cell division protein kinase 4

GENE INFORMATION

Gene Name	CDK4 cyclin-dependent kinase 4 [Homo sapiens (human)]
Official Symbol	CDK4
Synonyms	CDK4; cyclin-dependent kinase 4; CMM3; PSK-J3; cell division protein kinase 4;
Entrez Gene ID	1019
Protein Refseq	NP_000066
UniProt ID	A0A024RBB6
Chromosome Location	12q14
Pathway	ATF-2 transcription factor network; B Cell Receptor Signaling Pathway; Bladder cancer; Calcineurin-regulated NFAT-dependent transcription in lymphocytes; Cell Cycle; Cell Cycle, Mitotic; Cell cycle; Cell cycle - G1/S transition;
Function	ATP binding; cyclin binding; cyclin-dependent protein serine/threonine kinase activity; cyclin-dependent protein serine/threonine kinase regulator activity; protein binding; protein complex binding;