OriGene Technologies, Inc.
9620 Medical Center Drive, Ste 200
Rockville, MD 20850, US
Phone: +1-888-267-4436
https://www.origene.com
techsupport@origene.com
EU: info-de@origene.com
CN: techsupport@origene.cn

Product datasheet for AP05117PU-N

CDK4 Rabbit Polyclonal Antibody

Product data:

Product Type:	Primary Antibodies
Applications:	IP, WB
Recommended Dilution:	Western Blot. Immunoprecipitation.
Reactivity:	Human
Host:	Rabbit
Isotype:	IgG
Clonality:	Polyclonal
Immunogen:	TrpE-fusion protein containing the C-terminal 164 amino acids of human Cdk4.
Specificity:	This antibody reacts to CDK4.
Formulation:	Phosphate buffered saline with 0.08% sodium azide State: Purified State: Liquid purified Ig
Concentration:	lot specific
Conjugation:	Unconjugated
Storage:	The antibody can be shipped at ambient temperature. Store (in aliquots) at -20°C only. Avoid repeated freezing and thawing.
Stability:	Shelf life: one year from despatch.
Gene Name:	cyclin-dependent kinase 4
Database Link:	Entrez Gene 1019 Human P11802

View online »

Background: p34cdk4 is a major catalytic subunit of mammalian D-type cyclins which is expressed by a gene found in human chromosome 12q13. The cdk4 protein is constitutively expressed throughout the cell cycle and it is the assembly and accumulation of functional cdk4/cyclin D complexes which is rate limiting for the progression through the G1 phase of the cell cycle. Once the complex is formed it must be activated by the phosphorylation of threonine 172 on the cdk4 subunit, a reaction mediated by a cdk-activating kinase (CAK). Complex formation and phosphorylation are independently regulated events. The phosphorylation of the cdk4 subunit is subject to regulation of both stimulatory and inhibitory cytokine signals, thereby allowing cdk4 to function as a mid G1 checkpoint. Independent of phosphorylation, cdk4 is also regulated by the binding of p16Ink4/mts1 while in complex with cyclin D.

Synonyms: PSK-J3