

CDK4 Antibody

Lot Number: RB2158554
Product Data Sheet

Tested Species Reactivity
Human (Hu)

Tested Applications	Dilution *
Western Blot (WB)	1:1000
Immunofluorescence (IF)	1:10-1:50
Immunocytochemistry (ICC)	1:10-1:50
Immunohistochemistry (IHC)	1:50-1:100
Flow Cytometry (Flow)	1:10-1:50

* Suggested working dilutions are given as a guide only. It is recommended that the user titrates the product for use in their own experiment using appropriate negative and positive controls.

Details	
Catalog Number:	PA5-14445
Size:	400 µL
Class:	Polyclonal
Type:	Antibody
Clone:	
Host / Isotype:	Rabbit / IgG
Immunogen:	KLH conjugated synthetic peptide between 273-305 amino acids from the C-terminal region of human CDK4

Form Information	
Form:	Liquid
Concentration:	Lot-specific
Purification:	Ammonium sulfate precipitation, Size-exclusion - Dialysis
Storage Buffer:	PBS
Preservative:	0.09% sodium azide
Storage Conditions:	Maintain refrigerated at 2-8°C for up to 6 months. For long term storage store at -20°C

Product Specific Information	General Information
For Research Use Only. Not for use in diagnostic procedures. Not for resale without express authorization.	

CDK4 is a member of the Ser/Thr protein kinase family. This protein is highly similar to the gene products of *S. cerevisiae* cdc28 and *S. pombe* 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 the gene have been reported.

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