

**CDK4**  
**Rabbit Monoclonal antibody(Mab)**  
**Catalog # AD80542****Specification**

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**CDK4 - Product info**

Application	IHC-P
Primary Accession	<a href="#">P11802</a>
Reactivity	Human
Host	Rabbit
Clonality	Monoclonal
Calculated MW	33730

**CDK4 - Additional info**

Gene ID	1019
<b>Other Names</b>	
Cyclin-dependent kinase 4, 2.7.11.22, Cell division protein kinase 4, PSK-J3, CDK4	

**Dilution**  
IHC-P~~Ready-to-use

**Storage**  
Maintain refrigerated at 2-8°C

**CDK4 - Protein Information**

**Name** CDK4

**Function**

Ser/Thr-kinase component of cyclin D-CDK4 (DC) complexes that phosphorylate and inhibit members of the retinoblastoma (RB) protein family including RB1 and regulate the cell-cycle during G(1)/S transition. Phosphorylation of RB1 allows dissociation of the transcription factor E2F from the RB/E2F complexes and the subsequent transcription of E2F target genes which are responsible for the progression through the G(1) phase. Hypophosphorylates RB1 in early G(1) phase. Cyclin D-CDK4 complexes are major integrators of various mitogenenic and antimitogenic signals. Also phosphorylates SMAD3 in a cell-cycle-dependent manner and represses its transcriptional activity. Component of the ternary complex, cyclin D/CDK4/CDKN1B, required for nuclear

## Cellular Location

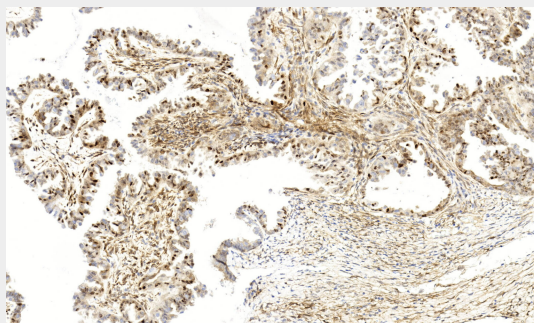
**translocation and activity of the cyclin D-CDK4 complex.**  
**Cytoplasm. Nucleus. Nucleus membrane.**  
**Note=Cytoplasmic when non-complexed**  
**Forms a cyclin D-CDK4 complex in the cytoplasm as cells progress through G(1) phase. The complex accumulates on the nuclear membrane and enters the nucleus on transition from G(1) to S phase. Also present in nucleoli and heterochromatin lumps. Colocalizes with RB1 after release into the nucleus.**

## CDK4 - Protocols

Provided below are standard protocols that you may find useful for product applications.

- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

## CDK4 - Images



Ovarian carcinoma