

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

## Specification

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### CDK4 - Product info

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

### CDK4 - Additional info

Gene ID **1019**  
**Other Names**  
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 mitogenic 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

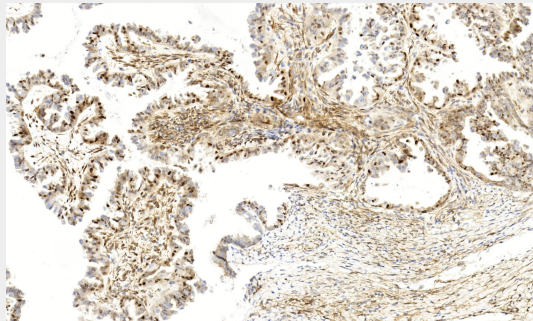
**translocation and activity of the cyclin D-CDK4 complex.**  
**Cytoplasm. Nucleus. Nucleus membrane.**  
**Note=Cytoplasmic when non-complexed**  
**Forms a cyclin D-CDK4 complex in the cytoplasm as cells progress through G(1) phase. The complex accumulates on the nuclear membrane and enters the nucleus 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