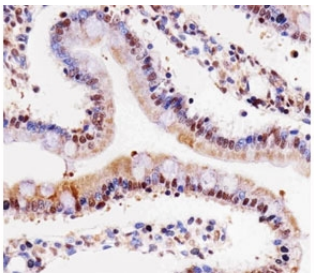
# Cdk4 Antibody (F52368)

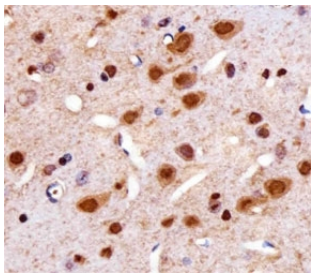
| Catalog No. | Formulation | Size |
|---|---|---|
| F52368-0.4ML | In 1X PBS, pH 7.4, with 0.09% sodium azide | 0.4 ml |
| F52368-0.08ML | In 1X PBS, pH 7.4, with 0.09% sodium azide | 0.08 ml |

**Bulk quote request**

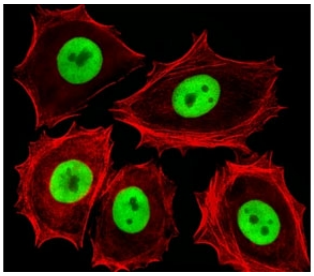
| | |
|---|---|
| **Availability** | 1-3 business days |
| **Species Reactivity** | Human, Rat |
| **Format** | Antigen affinity purified |
| **Host** | Rabbit |
| **Clonality** | Polyclonal (rabbit origin) |
| **Isotype** | Rabbit Ig |
| **Purity** | Antigen affinity |
| **UniProt** | P35426 |
| **Localization** | Nuclear and cytoplasmic |
| **Applications** | IHC (Paraffin): 1:25<br>Immunofluorescence: 1:25 |
| **Limitations** | This Cdk4 antibody is available for research use only. |



IHC testing of paraffin-embedded rat small intestine using Cdk4 antibody at 1:25.



IHC analysis of FFPE rat brain section using Cdk4 antibody at 1:25.



Fluorescent image of MCF-7 cells stained with Cdk4 antibody. Ab was diluted at 1:25 dilution. An Alexa Fluor 488-conjugated goat anti-rabbit lgG was used as the secondary Ab (green). Cytoplasmic actin was counterstained with Alexa Fluor 555 conjugated with Phalloidin (red).

## Description

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 translocation and activity of the cyclin D-CDK4 complex (By similarity).

## Application Notes

Titration of the Cdk4 antibody may be required due to differences in protocols and secondary/substrate sensitivity.

## Immunogen

A portion of amino acids 272-303 from the rat protein was used as the immunogen for this Cdk4 antibody.

## Storage

Aliquot the Cdk4 antibody and store frozen at -20oC or colder. Avoid repeated freeze-thaw cycles.


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