

Datasheet for ABIN3030610  
**anti-CDK4 antibody (AA 272-303)**[Go to Product page](#)

## 5 Images

## Overview

Quantity:	0.4 mL
Target:	CDK4
Binding Specificity:	AA 272-303
Reactivity:	Human, Rat
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This CDK4 antibody is un-conjugated
Application:	ELISA, Immunohistochemistry (IHC), Immunofluorescence (IF)

## Product Details

Immunogen:	A portion of amino acids 272-303 from the rat protein was used as the immunogen for this Cdk4 antibody.
Isotype:	Ig Fraction
Purification:	Antigen affinity purified

## Target Details

Target:	CDK4
Alternative Name:	Cdk4 ( <a href="#">CDK4 Products</a> )
Background:	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

## Target Details

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

UniProt: [P35426](#)

Pathways: [Cell Division Cycle](#), [Mitotic G1-G1/S Phases](#), [Regulation of Cell Size](#)

## Application Details

Application Notes: Titration of the Cdk4 antibody may be required due to differences in protocols and secondary/substrate sensitivity.\. IHC (Paraffin): 1:25,Immunofluorescence: 1:25

Restrictions: For Research Use only

## Handling

Format: Liquid

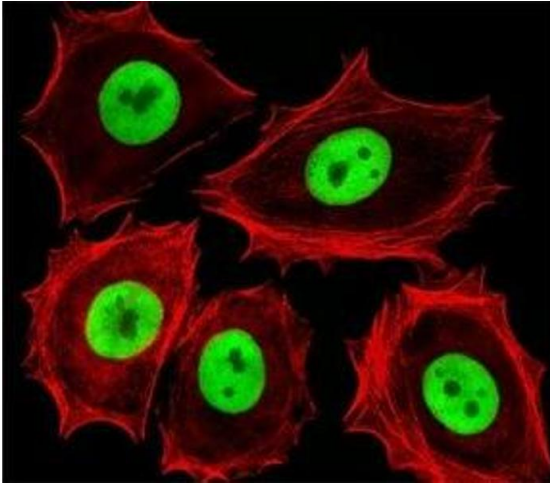
Buffer: In 1X PBS, pH 7.4, with 0.09 % sodium azide

Preservative: Sodium azide

Precaution of Use: This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.

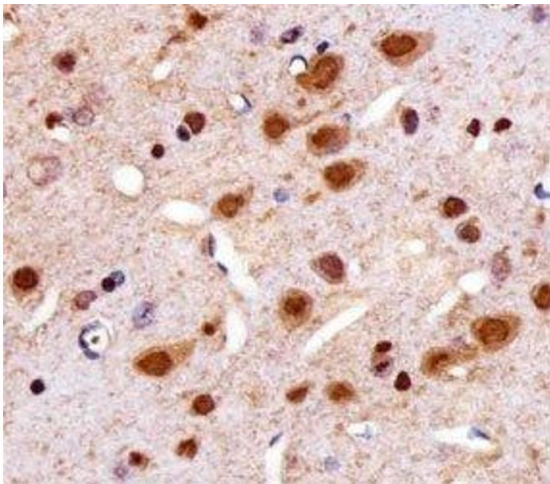
Storage: -20 °C

Storage Comment: Aliquot the Cdk4 antibody and store frozen at -20°C or colder. Avoid repeated freeze-thaw cycles.



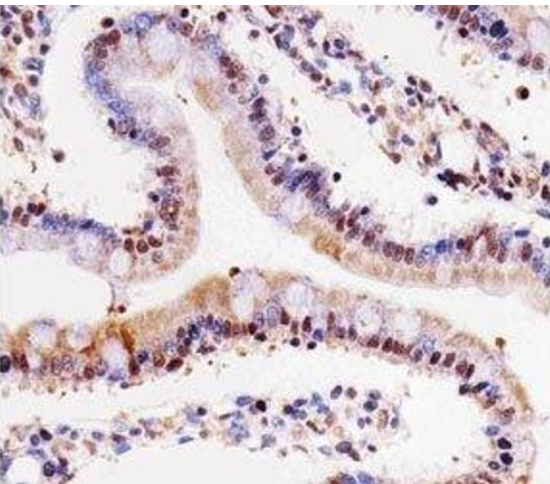
#### Immunofluorescence

**Image 1.** 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 IgG was used as the secondary Ab (green). Cytoplasmic actin was counterstained with Alexa Fluor 555 conjugated with



#### Immunohistochemistry

**Image 2.** IHC analysis of FFPE rat brain section using Cdk4 antibody at 1:25.



#### Immunohistochemistry

**Image 3.** IHC testing of paraffin-embedded rat small intestine using Cdk4 antibody at 1:25.

Please check the [product details page](#) for more images. Overall 5 images are available for ABIN3030610.