

Datasheet for ABIN1881714
anti-CDK4 antibody (C-Term)[Go to Product page](#)

4 Images

1 Publication

Overview

Quantity:	400 µL
Target:	CDK4
Binding Specificity:	AA 272-303, C-Term
Reactivity:	Rat
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This CDK4 antibody is un-conjugated
Application:	Western Blotting (WB), Immunofluorescence (IF), Immunohistochemistry (Paraffin-embedded Sections) (IHC (p))

Product Details

Immunogen:	This Rat Cdk4 antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 272-303 amino acids from the C-terminal region of rat Cdk4.
Isotype:	Ig Fraction
Purification:	This antibody is purified through a protein A column, followed by peptide affinity purification.

Target Details

Target:	CDK4
Alternative Name:	Cdk4 (CDK4 Products)
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

Target Details

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

Molecular Weight: 33799

NCBI Accession: [NP_446045](#)

UniProt: [P35426](#)

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

Application Details

Application Notes: IF: 1:25. WB: 1:1000. IHC-P: 1:25. IHC-P: 1:25

Restrictions: For Research Use only

Handling

Format: Liquid

Buffer: Purified polyclonal antibody supplied in PBS with 0.09 % (W/V) 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: 4 °C,-20 °C

Expiry Date: 6 months

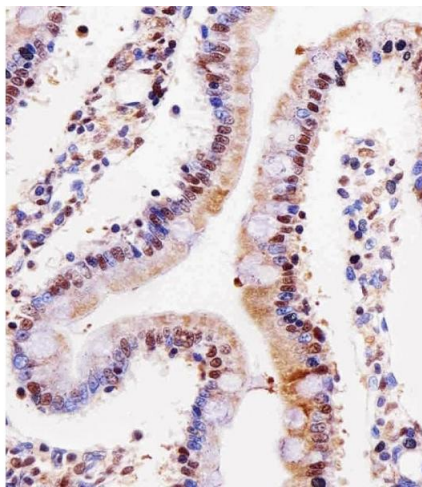
Publications

Product cited in: Wendeler, Pabst, Wang, Strouse, Wang, Hunter: "Process-scale purification and analytical characterization of highly gamma-carboxylated recombinant human prothrombin." in: **Journal of chromatography. A**, Vol. 1325, pp. 171-8, (2014) ([PubMed](#)).

Yang, Ko, Yang, Kim, Seo, Park, Choi, Seong, Kweon: "Interleukin-1 promotes coagulation, which is necessary for protective immunity in the lung against *Streptococcus pneumoniae* infection." in: **The Journal of infectious diseases**, Vol. 207, Issue 1, pp. 50-60, (2012) ([PubMed](#)).

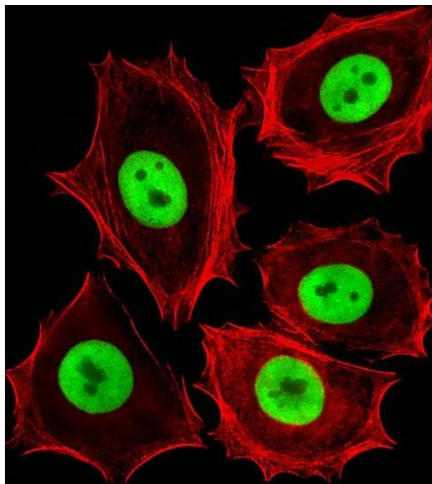
Lim, Joy, Hill, San Brian Chia: "Novel agmatine and agmatine-like peptidomimetic inhibitors of the West Nile virus NS2B/NS3 serine protease." in: **European journal of medicinal chemistry**, Vol. 46, Issue 7, pp. 3130-4, (2011) ([PubMed](#)).

Images



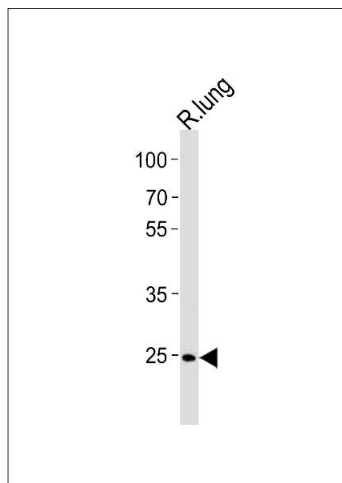
Immunohistochemistry (Paraffin-embedded Sections)

Image 1. Immunohistochemical analysis of paraffin-embedded rat small intestine section using Rat Cdk4 Antibody (C-term) B. B was diluted at 1:25 dilution. A undiluted biotinylated goat polyvalent antibody was used as the secondary, followed by DAB staining.



Immunofluorescence

Image 2. Fluorescent image of MCF-7 cells stained with (Rat) Cdk4 Antibody (C-term) B. B was diluted at 1:25 dilution. An Alexa Fluor 488-conjugated goat anti-rabbit IgG at 1:400 dilution was used as the secondary antibody (green). Cytoplasmic actin was counterstained with Alexa Fluor® 555 conjugated with Phalloidin (red).



Western Blotting

Image 3. Rat Cdk4 Antibody (C-term) (ABIN1881714 and ABIN2843623) western blot analysis in rat lung tissue lysates (35 µg/lane). This demonstrates the rat Cdk4 antibody detected the rat Cdk4 protein (arrow).

Please check the [product details page](#) for more images. Overall 4 images are available for ABIN1881714.