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Datasheet for ABIN391751 anti-CDK4 antibody (C-Term)

6 Images

3 Publications



Overview

Quantity:	400 µL
Target:	CDK4
Binding Specificity:	AA 273-305, C-Term
Reactivity:	Human
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This CDK4 antibody is un-conjugated
Application:	Western Blotting (WB), Immunofluorescence (IF), Flow Cytometry (FACS), Immunohistochemistry (Paraffin-embedded Sections) (IHC (p))

Product Details

Immunogen:	This CDK4 antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 273-305 amino acids from the C-terminal region of human CDK4.
Clone:	RB03154
lsotype:	Ig Fraction
Purification:	This antibody is prepared by Saturated Ammonium Sulfate (SAS) precipitation followed by dialysis against PBS.

Target Details

Target:	CDK4
Alternative Name:	CDK4 (CDK4 Products)

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Target Details

Background:	CDK4 is a member of the Ser/Thr protein kinase family. This protein is highly similar to the gene
	products of S. cerevisiae cdc28 and S. pombe cdc2. It is a catalytic subunit of the protein
	kinase complex that is important for cell cycle G1 phase progression. The activity of this kinase
	is restricted to the G1-S phase, which is controlled by the regulatory subunits D-type cyclins and
	CDK inhibitor p16(INK4a). This kinase was shown to be responsible for the phosphorylation of
	retinoblastoma gene product (Rb). Mutations in this gene as well as in its related proteins
	including D-type cyclins, p16(INK4a) and Rb were all found to be associated with tumorigenesis
	of a variety of cancers. Multiple polyadenylation sites of the gene have been reported.

Molecular Weight:	33730
Gene ID:	1019
NCBI Accession:	NP_000066
UniProt:	P11802
Pathways:	Cell Division Cycle, Mitotic G1-G1/S Phases, Regulation of Cell Size

Application Details

Application Notes:	IF: 1:10~50. WB: 1:1000. WB: 1:1000. IHC-P: 1:50~100. IHC-P: 1:50~100. FC: 1:10~50
Restrictions:	For Research Use only

Handling

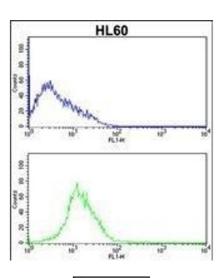
<u> </u>	
Format:	Liquid
Buffer:	Purified polyclonal antibody supplied in PBS with 0.09 % (W/V) sodium azide.
Preservative:	Sodium azide
Precaution of Use:	This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.
Storage:	4 °C,-20 °C
Storage Comment:	Maintain refrigerated at 2-8 °C for up to 6 months. For long term storage store at -20 °C in small aliquots to prevent freeze-thaw cycles.
Expiry Date:	6 months

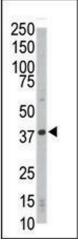
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Humphrey, Newcomb, Yu, Hao, Yu, Krajewski, Du, Jhala: "Mixed lineage kinase-3 stabilizes and functionally cooperates with TRIBBLES-3 to compromise mitochondrial integrity in cytokineinduced death of pancreatic beta cells." in: **The Journal of biological chemistry**, Vol. 285, Issue 29, pp. 22426-36, (2010) (PubMed).

Nagao, Hayashi: "Mixed lineage kinase 2 and hippocalcin are localized in Lewy bodies of Parkinson's disease." in: **Journal of the neurological sciences**, Vol. 281, Issue 1-2, pp. 51-4, (2009) (PubMed).

Images





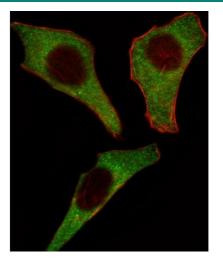
Flow Cytometry

Image 1. CDK4 Antibody (C-term) (ABIN391751 and ABIN2841625) flow cytometric analysis of HL60 cells (bottom histogram) compared to a negative control cell (top histogram).FITC-conjugated goat-anti-rabbit secondary antibodies were used for the analysis.

Western Blotting

Image 2. Western blot analysis of anti-CDK4 Pab (ABIN391751 and ABIN2841625) in HL-60 cell lysate. CDK4 (arrow) was detected using purified Pab. Secondary HRP-anti-rabbit was used for signal visualization with chemiluminescence.

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Immunofluorescence

Image 3. Fluorescent image of Hela cell stained with CDK4 Antibody (C-term) (ABIN391751 and ABIN2841625). Hela cells were fixed with 4 % PFA (20 min), permeabilized with Triton X-100 (0.1 %, 10 min), then incubated with CDK4 primary antibody (1:25, 1 h at 37 °C). For secondary antibody, Alexa Fluor® 488 conjugated donkey anti-rabbit antibody (green) was used (1:400, 50 min at 37 °C).Cytoplasmic actin was counterstained with Alexa Fluor® 555 (red) conjugated Phalloidin (7 units/mL, 1 h at 37 °C).CDK4 immunoreactivity is localized to Cytoplasm significantly.

Please check the product details page for more images. Overall 6 images are available for ABIN391751.