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Datasheet for ABIN2855529

anti-CDK4 antibody

8 Images

2 Publications

Overview

Quantity:	100 µL
Target:	CDK4
Reactivity:	Human
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This CDK4 antibody is un-conjugated
Application:	Western Blotting (WB), Immunofluorescence (IF), Immunohistochemistry (Paraffin-embedded Sections) (IHC (p)), Immunocytochemistry (ICC)

Product Details

Immunogen:	Recombinant protein encompassing a sequence within the center region of human CDK4. The exact sequence is proprietary.
Isotype:	IgG
Cross-Reactivity:	Cow, Human, Mouse, Rat
Characteristics:	Rabbit Polyclonal antibody to CDK4 (cyclin-dependent kinase 4) CDK4 antibody
Purification:	Purified by antigen-affinity chromatography.
Grade:	KO Validated

Target Details

Target:	CDK4
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Target Details

Alternative Name:	cyclin dependent kinase 4 (CDK4 Products)
Background:	<p>The protein encoded by this gene is a member of the Ser/Thr protein kinase family. This protein is highly similar to the gene products of <i>S. cerevisiae</i> cdc28 and <i>S. pombe</i> 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 this gene have been reported.</p>
Molecular Weight:	34 kDa
Gene ID:	1019
UniProt:	P11802
Pathways:	Cell Division Cycle , Mitotic G1-G1/S Phases , Regulation of Cell Size

Application Details

Application Notes:	WB: 1:500-1:3000. ICC/IF: 1:100-1:1000. IHC-P: 1:100-1:1000. Optimal dilutions/concentrations should be determined by the researcher. Not tested in other applications.
Comment:	Positive Control: PC-12 , 293T Validation: KO/KD, Orthogonal
Restrictions:	For Research Use only

Handling

Format:	Liquid
Concentration:	0.82 mg/mL
Buffer:	1XPBS pH 7, 20 % Glycerol, 0.025 % ProClin 300
Preservative:	ProClin
Precaution of Use:	This product contains ProClin: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.
Storage:	4 °C,-20 °C

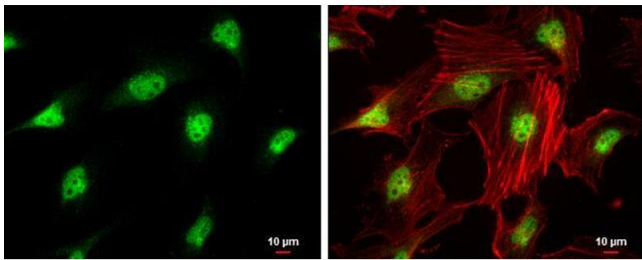
Handling

Storage Comment: Store as concentrated solution. Centrifuge briefly prior to opening vial. For short-term storage (1-2 weeks), store at 4°C. For long-term storage, aliquot and store at -20°C or below. Avoid multiple freeze-thaw cycles.

Publications

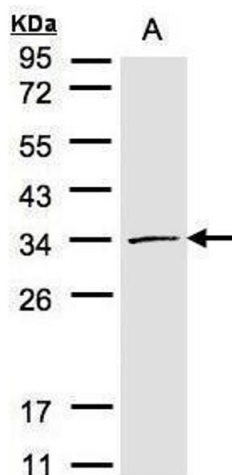
Product cited in: Chao, Wroblewski, Ilkayeva, Stevens, Bain, Meyer, Schenk, Martinez, Vergnes, Narkar, Drew, Hong, Boyadjian, Hevener, Evans, Reue, Spencer, Newgard, Tontonoz: "Skeletal muscle Nur77 expression enhances oxidative metabolism and substrate utilization." in: **Journal of lipid research**, Vol. 53, Issue 12, pp. 2610-9, (2012) ([PubMed](#)).

Images



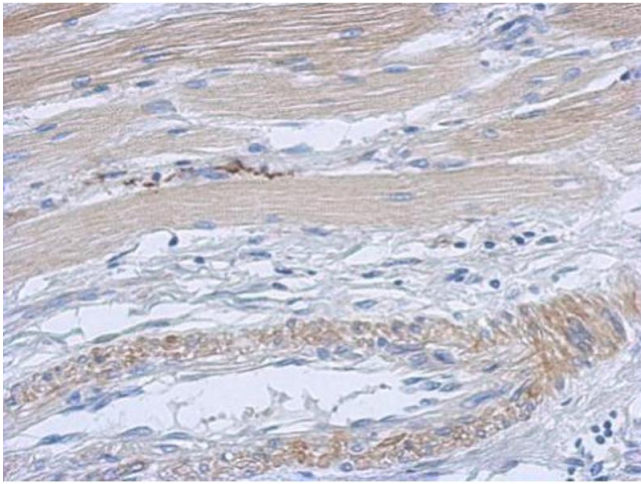
Immunofluorescence

Image 1. ICC/IF Image CDK4 antibody detects CDK4 protein at nucleus by immunofluorescent analysis. Sample: HeLa cells were fixed in 4% paraformaldehyde at RT for 15 min. Green: CDK4 protein stained by CDK4 antibody, diluted at 1:500. Red: phalloidin, a cytoskeleton marker, diluted at 1:200. Scale bar = 10 µm.



Western Blotting

Image 2. WB Image Sample(30 µg of whole cell lysate)
A:293T 12% SDS PAGE antibody diluted at 1:1000



Immunohistochemistry

Image 3. IHC-P Image Immunohistochemical analysis of paraffin-embedded human gastric cancer, using CDK4, antibody at 1:500 dilution.

Please check the [product details page](#) for more images. Overall 8 images are available for ABIN2855529.