

Datasheet for ABIN969040

anti-CDK1 antibody

4 Images

1 Publication

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Overview

Quantity:	100 µL
Target:	CDK1
Reactivity:	Human, Mouse, Rat, Monkey
Host:	Mouse
Clonality:	Monoclonal
Application:	Western Blotting (WB), ELISA, Immunohistochemistry (IHC), Immunocytochemistry (ICC)

Product Details

Immunogen:	Purified recombinant fragment of human CDK1 expressed in E. coli.
Clone:	2G9
Isotype:	IgG1
Purification:	purified

Target Details

Target:	CDK1
Alternative Name:	CDK1 (CDK1 Products)
Background:	<p>Description: The protein encoded by this gene is a member of the Ser/Thr protein kinase family. This protein is a catalytic subunit of the highly conserved protein kinase complex known as M-phase promoting factor (MPF), which is essential for G1/S and G2/M phase transitions of eukaryotic cell cycle. Mitotic cyclins stably associate with this protein and function as regulatory subunits. The kinase activity of this protein is controlled by cyclin accumulation and</p>

Target Details

destruction through the cell cycle. The phosphorylation and dephosphorylation of this protein also play important regulatory roles in cell cycle control.

Aliases: CDC2, CDC28A, P34CDC2, MGC1111195, DKFZp686L20222, CDK1

Molecular Weight: 34 kDa

Gene ID: 983

HGNC: 983

Pathways: [Cell Division Cycle](#), [Fc-epsilon Receptor Signaling Pathway](#), [Neurotrophin Signaling Pathway](#), [Activation of Innate immune Response](#), [Mitotic G1-G1/S Phases](#), [DNA Replication](#), [M Phase](#), [Toll-Like Receptors Cascades](#), [Synthesis of DNA](#)

Application Details

Application Notes: ELISA: 1:10000, WB: 1:500 - 1:2000, IHC: 1:200 - 1:1000, ICC: 1:200 - 1:1000

Restrictions: For Research Use only

Handling

Format: Liquid

Buffer: Ascitic fluid containing 0.03 % 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: 4°C, -20°C for long term storage

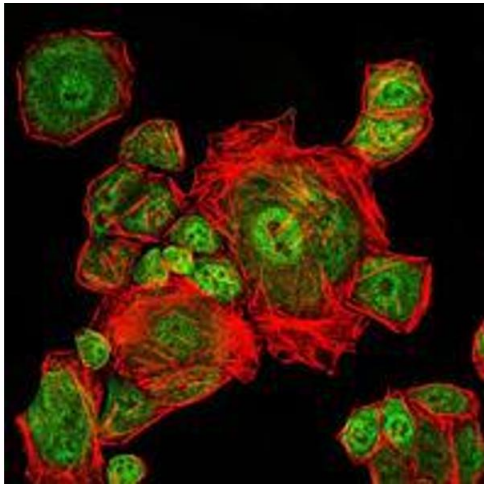
Publications

Product cited in: Golledge, Biros, Clancy, Cooper, Palmer, Norman: "A single-nucleotide polymorphism in the gene encoding osteoprotegerin is associated with diastolic blood pressure in older men." in: **American journal of hypertension**, Vol. 22, Issue 11, pp. 1167-70, (2009) ([PubMed](#)).

Talmud, Drenos, Shah, Shah, Palmen, Verzilli, Gaunt, Pallas, Lovering, Li, Casas, Sofat, Kumari, Rodriguez, Johnson, Newhouse, Dominiczak, Samani, Caulfield, Sever, Stanton, Shields, Padmanabhan et al.: "Gene-centric association signals for lipids and apolipoproteins identified

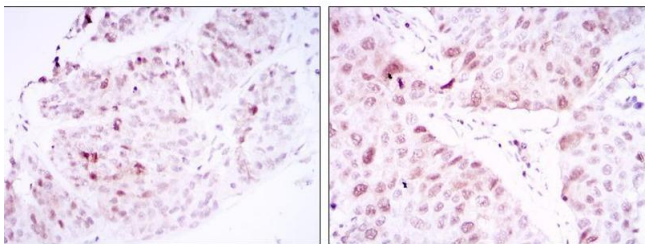
via the HumanCVD BeadChip. ..." in: **American journal of human genetics**, Vol. 85, Issue 5, pp. 628-42, (2009) ([PubMed](#)).

Images



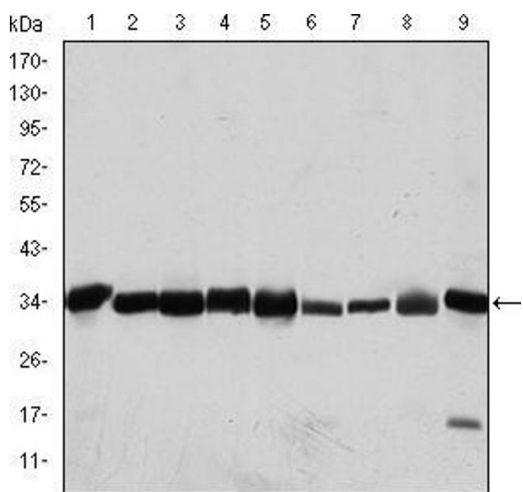
Immunofluorescence

Image 1. Immunofluorescence analysis of Eca109 cells using CDK1 mouse mAb (green). Red: Actin filaments have been labeled with Alexa Fluor-555 phalloidin.



Immunohistochemistry

Image 2. Immunohistochemical analysis of paraffin-embedded ovarian cancer tissues (left) and lung cancer tissues (right) using CDK1 mouse mAb with DAB staining.



Western Blotting

Image 3. Western blot analysis using CDK1 mouse mAb against Hela (1), Jurkat (2), K562 (3), A431 (4), MCF-7 (5), RAW264.7 (6), NIN/3T3 (7), PC-12 (8), and Cos7 (9) cell lysate.

Please check the [product details page](#) for more images. Overall 4 images are available for ABIN969040.