

Datasheet for ABIN969506

anti-CDK2 antibody

7 Images

1 Publication

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Overview

Quantity:	0.1 mg
Target:	CDK2
Reactivity:	Human, Mouse
Host:	Mouse
Clonality:	Monoclonal
Application:	Western Blotting (WB), Immunohistochemistry (IHC), ELISA, Flow Cytometry (FACS), Immunocytochemistry (ICC)

Product Details

Immunogen:	Purified recombinant fragment of human CDK2 expressed in E. coli.
Clone:	1A6
Isotype:	IgG1
Purification:	purified

Target Details

Target:	CDK2
Alternative Name:	CDK2 (CDK2 Products)
Background:	Description: The protein encoded by this gene is a member of the Ser/Thr protein kinase family. This protein kinase 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 cyclin-dependent protein kinase complex, whose activity is restricted to the G1-S phase, and essential for cell cycle G1/S phase transition. This protein

Target Details

associates with and regulated by the regulatory subunits of the complex including cyclin A or E, CDK inhibitor p21Cip1 (CDKN1A) and p27Kip1 (CDKN1B). Its activity is also regulated by its protein phosphorylation. Two alternatively spliced variants and multiple transcription initiation sites of this gene have been reported.

Aliases: p33

Molecular Weight: 33.9 kDa

Gene ID: 1017

HGNC: 1017

Pathways: [PI3K-Akt Signaling](#), [Cell Division Cycle](#), [Mitotic G1-G1/S Phases](#), [DNA Replication](#), [M Phase](#), [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, FCM: 1:200 - 1:400

Restrictions: For Research Use only

Handling

Format: Liquid

Buffer: Purified antibody in PBS with 0.05 % 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

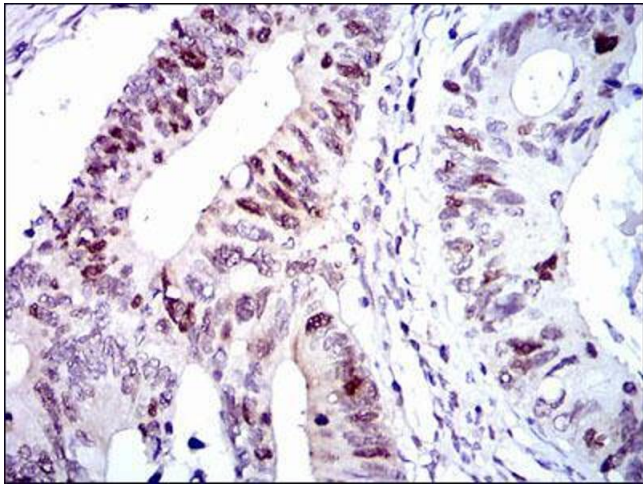
Publications

Product cited in: Toka, Dunaway, Smaltz, Szulc-Dąbrowska, Drnevich, Mielcarska, Bossowska-Nowicka, Schweizer: "Bacterial and viral pathogen-associated molecular patterns induce divergent early transcriptomic landscapes in a bovine macrophage cell line." in: **BMC genomics**, Vol. 20, Issue 1, pp. 15, (2019) ([PubMed](#)).

Murakami, Maeda, Yonezawa, Matsuki: "CC chemokine ligand 2 and CXC chemokine ligand 8 as

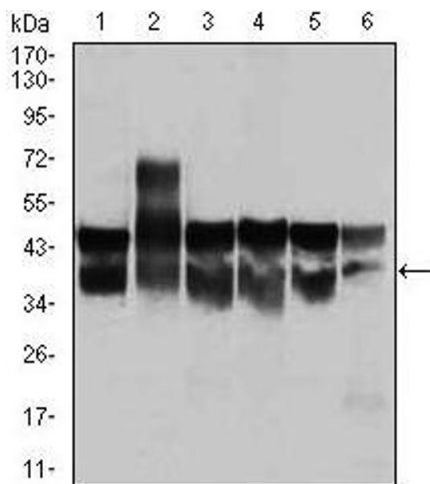
neutrophil chemoattractant factors in canine idiopathic polyarthritis." in: **Veterinary immunology and immunopathology**, Vol. 182, pp. 52-58, (2016) ([PubMed](#)).

Images



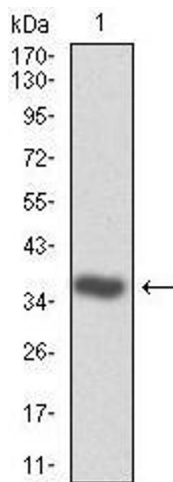
Immunohistochemistry

Image 1. Immunohistochemical analysis of paraffin-embedded colon cancer tissues using CDK2 mouse mAb with DAB staining.



Western Blotting

Image 2. Western blot analysis using CDK2 mouse mAb against Jurkat (1), HL-60 (2), K562(3), A431(4), HeLa(5), and NIH3T3 (6) cell lysate.



Western Blotting

Image 3. Western blot analysis using CDK2 mAb against human CDK2 (AA: 197-295) recombinant protein. (Expected MW is 36.8 kDa)

Please check the [product details page](#) for more images. Overall 7 images are available for ABIN969506.