

Datasheet

CDK2 polyclonal antibody

Catalog Number: PAB9940

Regulation Status: For research use only (RUO)

Product Description: Rabbit polyclonal antibody raised against synthetic peptide of CDK2.

Immunogen: A synthetic peptide (conjugated with KLH) corresponding to C-terminus of human CDK2.

Host: Rabbit

Theoretical MW (kDa): 33

Reactivity: Human, Mouse, Rat

Applications: ELISA, IHC-P, IP, WB-Ce
(See our web site product page for detailed applications information)

Protocols: See our web site at
<http://www.abnova.com/support/protocols.asp> or product page for detailed protocols

Specificity: Antiserum will specifically react with a 33 KDa cdk2 protein from human, rat and mouse tissue. Cross reactivity with cdk2 from other species may also occur.

Form: Liquid

Recommend Usage: ELISA (1:1000-1:5000)
Western Blot (1:200-1:1000)
Immunohistochemistry (1:200-1:1000)
The optimal working dilution should be determined by the end user.

Storage Buffer: In antiserum (0.01% sodium azide)

Storage Instruction: Store at 4°C. For long term storage store at -20°C.
Aliquot to avoid repeated freezing and thawing.

Entrez GeneID: 1017

Gene Symbol: CDK2

Gene Alias: p33(CDK2)

Gene Summary: 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 *S. cerevisiae* cdc28, and *S. pombe* 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 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. [provided by RefSeq]

References:

1. Cell cycle regulation of histone H1 kinase activity associated with the adenoviral protein E1A. Giordano A, Lee JH, Scheppler JA, Herrmann C, Harlow E, Deuschle U, Beach D, Franza BR Jr. Science. 1991 Sep 13;253(5025):1271-5.
2. Isolation of the human cdk2 gene that encodes the cyclin A- and adenovirus E1A-associated p33 kinase. Tsai LH, Harlow E, Meyerson M. Nature. 1991 Sep 12;353(6340):174-7.
3. A new human p34 protein kinase, CDK2, identified by complementation of a cdc28 mutation in *Saccharomyces cerevisiae*, is a homolog of *Xenopus* Eg1. Elledge SJ, Spottswood MR. EMBO J. 1991 Sep;10(9):2653-9.