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Datasheet

CDK9 polyclonal antibody

Catalog Number: PAB9941

Regulation Status: For research use only (RUO)

Product Description: Rabbit polyclonal antibody raised against synthetic peptide of CDK9.

Immunogen: A synthetic peptide corresponding to C-terminus and N-terminus of human CDK9.

Host: Rabbit

Theoretical MW (kDa): 43

Reactivity: Human,Mouse,Rat

Applications: ELISA, IHC, IP, WB
(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 43 KDa cdk9 (PITALRE) protein from human, rat and mouse tissue. Cross reactivity with cdk9 (PITALRE) from other species may also occur. The murine cDNA is shown to be 98% identical with human.

Form: Liquid

Recommend Usage: ELISA (1:10000-1:50000)
Western Blot (1:500-1:3000)
Immunohistochemistry (1:200-1:1000)
The optimal working dilution should be determined by the end user.

Storage Buffer: In 20 mM KH_2PO_4, 150 mM NaCl, pH 7.2 (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: 1025

Gene Symbol: CDK9

Gene Alias: C-2k, CDC2L4, CTK1, PITALRE, TAK

Gene Summary: The protein encoded by this gene is a member of the cyclin-dependent protein kinase (CDK) family. CDK family members are highly similar to the gene products of S. cerevisiae cdc28, and S. pombe cdc2, and known as important cell cycle regulators. This kinase was found to be a component of the multiprotein complex TAK/P-TEFb, which is an elongation factor for RNA polymerase II-directed transcription and functions by phosphorylating the C-terminal domain of the largest subunit of RNA polymerase II. This protein forms a complex with and is regulated by its regulatory subunit cyclin T or cyclin K. HIV-1 Tat protein was found to interact with this protein and cyclin T, which suggested a possible involvement of this protein in AIDS. [provided by RefSeq]

References:

1. Binding of CDK9 to TRAF2. MacLachlan TK, Sang N, De Luca A, Puri PL, Levrero M, Giordano A. J Cell Biochem. 1998 Dec 15;71(4):467-78.
2. CDK9 (PITALRE): a multifunctional cdc2-related kinase. de Falco G, Giordano A. J Cell Physiol. 1998 Dec;177(4):501-6.
3. Cloning of murine CDK9/PITALRE and its tissue-specific expression in development. Bagella L, MacLachlan TK, Buono RJ, Pisano MM, Giordano A, De Luca A. J Cell Physiol. 1998 Nov;177(2):206-13.