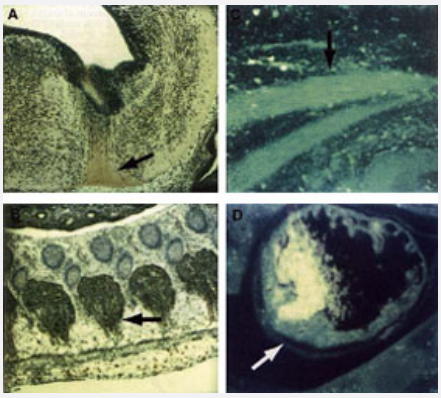
CDK9 polyclonal antibody

Catalog # PAB9941 Size 100 uL

Applications



Immunohistochemistry

Immunocytochemical staining of mouse tissue using CDK9 polyclonal antibody (Cat # PAB9941).
The staining shows the location of CDK9 protein in developing mouse tissue. Arrows indicate areas of high expression.
Panel A : Peroxidase-DAB immunostaining of CDK9 protein in the developing mouse brain in the differentiated region of the medulla oblongata just below the fourth ventricle.
Similar staining is shown in Panel B in the dorsal root ganglia.
Panel C : Fluorescein immunofluorescence of CDK9 in skeletal muscle.
Similar staining is shown in Panel D in cardiac muscle.

Specification

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
Specificity	Antiserum will specifically react with a 43 KDa cdk9 (PITALRE) protein from human, rat and mouse ti ssue. Cross reactivity with cdk9 (PITALRE) from other species may also occur. The murine cDNA is shown to be 98% identical with human.
Form	Liquid
Quality Control Testing	Antibody Reactive Against Synthetic Peptide.

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.
Note	This product contains sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which shoul d be handled by trained staff only.

Applications

- Western Blot
- Immunohistochemistry

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  Similar staining is shown in Panel D in cardiac muscle.
- Immunoprecipitation
- Enzyme-linked Immunoabsorbent Assay

Gene Info — CDK9

Entrez GeneID	1025
Protein Accession#	P50750;NP_001252
Gene Name	CDK9
Gene Alias	C-2k, CDC2L4, CTK1, PITALRE, TAK
Gene Description	cyclin-dependent kinase 9
Omim ID	603251
Gene Ontology	Hyperlink

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
Other Designations	CDC2-related kinase|OTTHUMP00000022198|cell division protein kinase 9|serine/threonine protein kinase PITALRE

Publication Reference

- Binding of CDK9 to TRAF2.

  MacLachlan TK, Sang N, De Luca A, Puri PL, Levrero M, Giordano A.

  Journal of Cellular Biochemistry 1998 Dec; 71(4):467.

  Application: IF, IP, WB-Re, Human, Mouse, C2C12, HEK 293 cells, Recombinant protein

- CDK9 (PITALRE): a multifunctional cdc2-related kinase.

  de Falco G, Giordano A.

  Journal of Cellular Physiology 1998 Dec; 177(4):501.

  Application: IP, WB-Ce, WB-Re, WB-Tr, Human, Cancers, Mammalian cells, Recombinant protein

- 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.

  Journal of Cellular Physiology 1998 Nov; 177(2):206.

  Application: IHC-P, IP, KA, WB-Ti, WB-Tr, Mouse, Brains, Hearts, Kidneys, Livers, Lungs, Muscles, Placenta, Spleens, Mouse gestation, C2C12, NIH/3T3 cells

- The ability of positive transcription elongation factor B to transactivate human immunodeficiency virus transcription depends on a functional kinase domain, cyclin T1, and Tat.

  Fujinaga K, Cujec TP, Peng J, Garriga J, Price DH, Grana X, Peterlin BM.

  Journal of Virology 1998 Sep; 72(9):7154.

- Chromosomal mapping of members of the cdc2 family of protein kinases, cdk3, cdk6, PISSLRE, and PITALRE, and a cdk inhibitor, p27Kip1, to regions involved in human cancer.

  Bullrich F, MacLachlan TK, Sang N, Druck T, Veronese ML, Allen SL, Chiorazzi N, Koff A, Heubner K, Croce CM, et al..

  Cancer Research 1995 Mar; 55(6):1199.