

CDK9 Polyclonal Antibody

Catalog NumberPA1-84581

Product data sheet

Details		Species Reactivity	
Size	100 µL	Species reactivity	Human, Mouse, Rat
Host/Isotope	Rabbit / IgG	Tested Applications	Dilution *
Class	Polyclonal		
Type	Antibody		
Immunogen	Multiple synthetic peptides corresponding to the C-terminal and N-terminal domains of human CDK9.		
Conjugate	Unconjugated	ELISA (ELISA)	1:10,000-1:50,000
Form	Liquid	Immunohistochemistry (Paraffin) (IHC (P))	1:200-1:1,000
Concentration	Conc. Not Determined	Immunoprecipitation (IP)	Assay-dependent
Storage Conditions	4°C or -20°C if preferred	Western Blot (WB)	1:500-1:3,000
		* Suggested working dilutions are given as a guide only. It is recommended that the user titrate the product for use in their own experiment using appropriate negative and positive controls.	

Product specific information

PA1-84581 does not cross-react with other cyclin dependent kinases. Rabbit anti Human Cdk9 antibody recognizes a approximately 43 kDa member of the cyclin-dependent protein kinase (CDK) family, CDK9, previously named PITALRE.

Background/Target Information

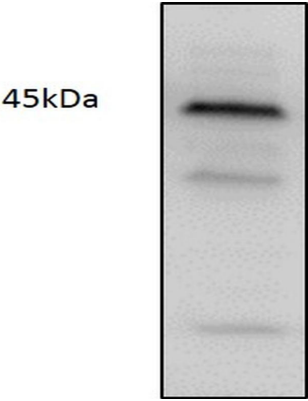
CDK9 (cyclin-dependent kinase 9) is a member of the cyclin-dependent protein kinase family. It is involved in the regulation of transcription. CDK9 is a member of the cyclin-dependent kinase pair (CDK9/cyclin-T) complex. This complex facilitates the transition from abortive to productive elongation by phosphorylating the CTD of the large subunit of RNA polymerase II, POLR2A, SUPT5H, and RDBP. The complex is inactive when in the 7SK snRNP complex form. CDK9 phosphorylates EP300, MYOD1, RPB1/POLR2A, AR, DSIF, and NELF. It regulates cytokine inducible transcription networks by facilitating promoter recognition of target transcription factors. CDK9 promotes RNA synthesis in genetic programs for cell growth, differentiation, and viral pathogenesis. The CDK9/cyclin-K complex also has kinase activity towards CTD of RNAPII and can substitute for CDK9/cyclin-T P-TEFb in vitro. Chronic activation of CDK9 causes cardiac myocyte enlargement leading to cardiac hypertrophy and confers a predisposition to heart failure.

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CDK9 Antibody (PA1-84581) in WB

Western blot analysis of CDK9 was performed by loading 50 µg of J-lat full (10.6) whole cell lysate in reducing sample buffer onto a 4-15% tris-glycine gel. Proteins were transferred to PVDF and then blocked in blocking buffer (TBST+5% non-fat milk) for one hour at room temperature. CDK9 was detected using an anti-CDK9 polyclonal antibody (Product # PA1-84581) at a dilution of 1:1,000 overnight at 4°C on a rocking platform. Goat anti Rabbit HRP-conjugated secondary antibody was diluted at 1:2000 in 1xTBST buffer with 5% non fat milk and incubated for 1 hour at room temperature. Data courtesy of Antibody Data Exchange Program.

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