

Cdk9 (Phospho Thr186) Rabbit pAb

CatalogNo: YP0365 **Orthogonal Validated** 

Key Features

Host Species

- Rabbit

Reactivity

- Human, Mouse, Rat

Applications

- WB, ELISA

MW

- 42kD (Observed)

Isotype

- IgG

Storage

Storage* -15°C to -25°C/1 year (Do not lower than -25°C)

Formulation Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% sodium azide.

Recommended Dilution Ratios

WB 1:500-1:2000

ELISA 1:5000

Not yet tested in other applications.

Basic Information

Clonality Polyclonal

Immunogen Information

Immunogen The antiserum was produced against synthesized peptide derived from human CDK9 around the phosphorylation site of Thr186. AA range:152-201

Specificity Phospho-Cdk9 (T186) Polyclonal Antibody detects endogenous levels of Cdk9 protein only when phosphorylated at T186. The name of modified sites may be influenced by many factors, such as species (the modified site was not originally found in human samples) and the change of protein sequence (the previous protein sequence is incomplete, and the protein sequence may be prolonged with the development of protein sequencing technology). When naming, we will use the "numbers" in historical reference to keep the sites consistent with the reports. The antibody binds to the following modification sequence (lowercase letters are modification sites):RYtNR

Target Information

Gene name CDK9

Protein Name Cyclin-dependent kinase 9

Organism	Gene ID	UniProt ID
Human	1025 ;	P50750 ;
Mouse	107951 ;	Q99J95 ;
Rat	362110 ;	Q641Z4 ;

Cellular Localization

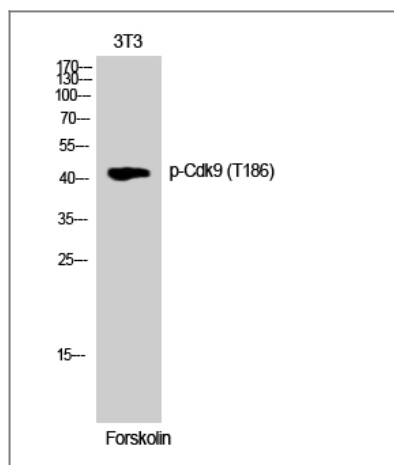
Nucleus. Cytoplasm. Nucleus , PML body. Accumulates on chromatin in response to replication stress. Complexed with CCNT1 in nuclear speckles , but uncomplexed form in the cytoplasm. The translocation from nucleus to cytoplasm is XPO1/CRM1-dependent. Associates with PML body when acetylated.

Tissue specificity Ubiquitous.

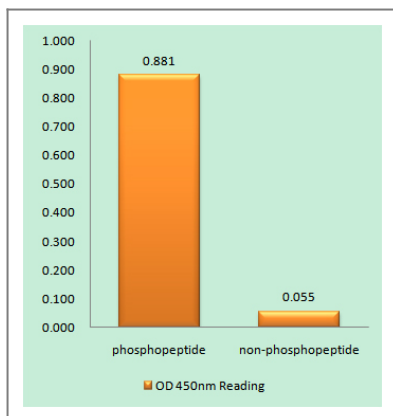
Function

Catalytic activity:ATP + [DNA-directed RNA polymerase] = ADP + [DNA-directed RNA polymerase] phosphate. ,Catalytic activity:ATP + a protein = ADP + a phosphoprotein. ,Function:Member of the cyclin-dependent kinase pair (CDK9/cyclin-T) complex , also called positive transcription elongation factor b (P-TEFb) , which facilitates the transition from abortive to production elongation by phosphorylating the CTD (C-terminal domain) of the large subunit of RNA polymerase II (RNAP II) , SUPT5H and RDBP. The CDK9/cyclin-K complex has also a kinase activity toward CTD of RNAP II and can substitute for P-TEFb in vitro. ,similarity:Belongs to the protein kinase superfamily. CMGC Ser/Thr protein kinase family. CDC2/CDKX subfamily. ,similarity:Contains 1 protein kinase domain. ,subunit:Associates with CCNT1/cyclin-T1 to form P-TEFb. P-TEFb forms a complex with AFF4/AF5Q31. Also associates with CCKN/cyclin-K. Component of a complex which is at least composed of HTATSF1/Tat-SF1 , P-TEFb complex , RNA pol II , SUPT5H , and NCL/nucleolin. Component of the 7SK snRNP complex at least composed of P-TEFb (composed of CDK9 and CCNT1/cyclin-T1) , HEXIM1 , HEXIM2 , BCDIN3 , SART3 proteins and 7SK and U6 snRNAs. ,tissue specificity:Ubiquitous. ,

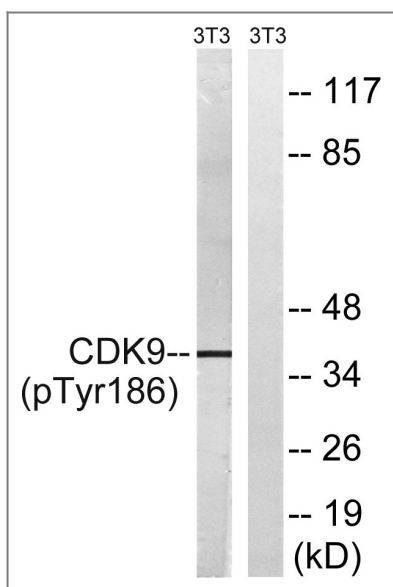
Validation Data



Western Blot analysis of 3T3 cells using Phospho-Cdk9 (T186) Polyclonal Antibody cells nucleus extracted by Minute TM Cytoplasmic and Nuclear Fractionation kit (SC-003, Invent biotech, MN, USA).



Enzyme-Linked Immunosorbent Assay (Phospho-ELISA) for Immunogen Phosphopeptide (Phospho-left) and Non-Phosphopeptide (Phospho-right), using CDK9 (Phospho-Thr186) Antibody



Western blot analysis of lysates from NIH/3T3 cells treated with Forskolin 40nM 30', using CDK9 (Phospho-Thr186) Antibody. The lane on the right is blocked with the phospho peptide.

Contact information

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Please scan the QR code to access additional product information:
Cdk9 (Phospho Thr186) Rabbit pAb

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