SignalChem
Specialists in Signaling Proteins
1-866-9 KINASE (54-6273)

Catalog #	Aliquot Size
C40-65R-100	100 µg

Anti-Phospho-CDK9 (Thr29)

Rabbit Polyclonal Antibody

Catalog # C40-65R

Lot # B3216-43

Cited Applications
ELISA, IP, WB

Ideal working dilutions for each application should be empirically determined by the investigator.

Specificity
Recognizes the human CDK9 protein phosphorylated at Threonine 29

Cross Reactivity
Human, Mouse and Rat

Host/Isotype/Clone#
Rabbit, IgG

Immunogen
The antibody was produced against synthesized peptide corresponding to residues surrounding Thr29 in the human CDK9 protein.

Formulation
0.02 M Potassium Phosphate, 0.15 M Sodium Chloride, pH 7.2 + 0.01% (w/v) Sodium Azide

Stability
1yr at –20°C from date of shipment

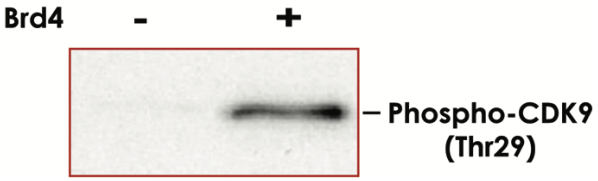
Scientific Background

CDK9/CyclinK is a member of the cyclin-dependent protein kinase (CDK) family. CDK9 is closely related to cdc28 and cdc2 and is an important regulator of the cell cycle (1). CDK9 is a component of the multiprotein complex TAK/P-TEFβ. CDK9 can modulate RNA polymerase II-directed transcription by phosphorylating the C-terminal domain of the largest subunit of RNA polymerase II. CDK9 forms a complex with and is regulated by its regulatory subunit cyclin T or cyclin K. CDK9 also interacts with the HIV-1 Tat protein which suggested a possible involvement of this protein in AIDS (2).

References:

1. Yang, Z. et al: The 7SK small nuclear RNA inhibits the CDK9/cyclin T1 kinase to control transcription. Nature, 2001; 414: 317-322.
2. Bullrich, F. et al: Chromosomal mapping of members of the cdc2 family of protein kinases, cdk3, cdk6, PISSLRE, and PITALRE, and a cdk inhibitor, p27-Kip1, to regions involved in human cancer. Cancer Res. 1995; 55: 1199-1205.

Sample Data



Western blot using affinity purified Anti-Phospho-CDK9 (Thr29) (1:1000 dilution) to detect phosphorylated CDK9.

Anti-Phospho-CDK9 (Thr29)

Rabbit Polyclonal Antibody

Catalog #	C40-65R
Lot #	B3216-43
Purification	Immunoaffinity chromatography
Stability	1yr at –20°C from date of shipment
Storage & Shipping	Store product at –20°C. For optimal storage, aliquot antibody into smaller quantities after centrifugation and store at recommended temperature. For optimal performance, avoid repeated handling and multiple freeze/thaw cycles. Product shipped on ice packs.

To place your order, please contact us by phone 1-(604)-232-4600, fax 1-604-232-4601 or by email: orders@signalchem.com
www.signalchem.com

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