

For Research Use Only

# CDK9 Monoclonal antibody

Catalog Number: 67256-1-Ig



## Basic Information

<b>Catalog Number:</b> 67256-1-Ig	<b>GenBank Accession Number:</b> BC001968	<b>Purification Method:</b> Protein A purification
<b>Size:</b> 150ul , Concentration: 1700 µg/ml by Nanodrop and 1000 µg/ml by Bradford method using BSA as the standard;	<b>GeneID (NCBI):</b> 1025	<b>CloneNo.:</b> 1G6B3
<b>Source:</b> Mouse	<b>Full Name:</b> cyclin-dependent kinase 9	<b>Recommended Dilutions:</b> WB 1:5000-1:50000 IF 1:500-1:2000
<b>Isotype:</b> IgG1	<b>Calculated MW:</b> 372 aa, 43 kDa	
<b>Immunogen Catalog Number:</b> AG29178	<b>Observed MW:</b> 38-42 kDa, 55 kDa	

## Applications

<b>Tested Applications:</b> IF, WB, ELISA	<b>Positive Controls:</b>
<b>Species Specificity:</b> Human, Mouse, Rat	<b>WB :</b> HeLa cells, T-47D cells, HCT 116 cells, A431 cells, MOLT-4 cells, TF-1 cells, HSC-T6 cells, ROS1728 cells
	<b>IF :</b> HeLa cells,

## Background Information

CDK9(Cyclin-dependent kinase 9) is a member of the Cdc2-like family of kinases. Its cyclin partners are members of the family of cyclin T (T1, T2a and T2b) and cyclin K. The CDK9/cyclin T complexes appear to be involved in regulating several physiological processes. CDK9 has also been described as the kinase of the TAK complex, which is homologous to the P-TEFb complex and involved in HIV replication. In addition, CDK9 seems to have an anti-apoptotic function in monocytes, that may be related to its control over differentiation of monocytes (PMID: 12432243). CDK9 has two isoforms with the molecular mass of 42 kDa and 55 kDa, and the relative abundance of Cdk9(42kDa) and Cdk9(55kDa) changes in different cell types (PMID: 12706900, 15780980).

## Storage

**Storage:**  
Store at -20°C. Stable for one year after shipment.  
**Storage Buffer:**  
PBS with 0.1% sodium azide and 50% glycerol pH 7.3.  
Aliquoting is unnecessary for -20°C storage

\*\*\* 20ul sizes contain 0.1% BSA

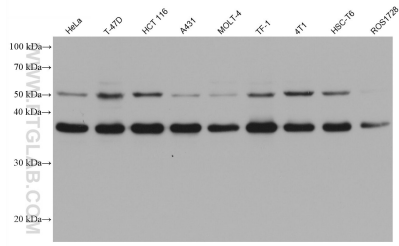
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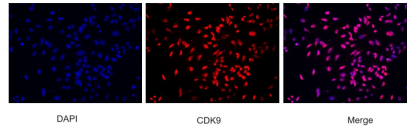
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## Selected Validation Data



Various lysates were subjected to SDS PAGE followed by western blot with 67256-1-Ig (CDK9 antibody) at dilution of 1:10000 incubated at room temperature for 1.5 hours.



Immunofluorescent analysis of (4% PFA) fixed HeLa cells using CDK9 antibody (67256-1-Ig, Clone: 1G6B3) at dilution of 1:1000 and Multi-rAbCoraLite Plus 594-Goat Anti-Mouse Recombinant Secondary Antibody (H+L) (RGAM004, 1:500) were used for detection.