

For Research Use Only

# CDK9 Recombinant antibody, PBS Only

Catalog Number:83662-7-PBS



## Basic Information

<b>Catalog Number:</b> 83662-7-PBS	<b>GenBank Accession Number:</b> BC001968	<b>Purification Method:</b> Protein A purification
<b>Size:</b> 100ug , Concentration: 1 mg/ml by Nanodrop;	<b>GeneID (NCBI):</b> 1025	<b>CloneNo.:</b> 240600D7
<b>Source:</b> Rabbit	<b>UNIPROT ID:</b> P50750	
<b>Isotype:</b> IgG	<b>Full Name:</b> cyclin-dependent kinase 9	
<b>Immunogen Catalog Number:</b> AG2318	<b>Calculated MW:</b> 372 aa, 43 kDa	
	<b>Observed MW:</b> 38-42 kDa, 55 kDa	

## Applications

**Tested Applications:**  
IHC, IF/ICC, ELISA

**Species Specificity:**  
human

## 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).

## Storage

**Storage:**  
Store at -80°C.

**Storage Buffer:**  
PBS Only

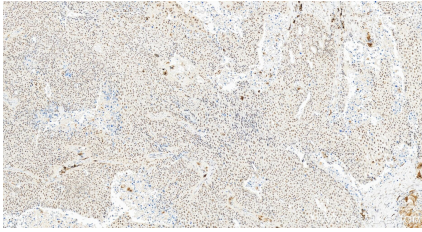
For technical support and original validation data for this product please contact:

T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or 1(312) 455-8498 (outside USA)

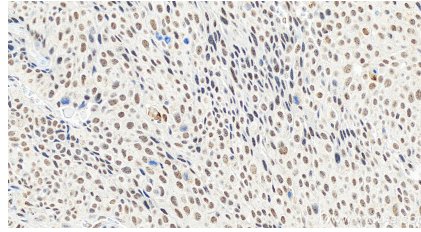
E: [proteintech@ptglab.com](mailto:proteintech@ptglab.com)  
W: [ptglab.com](http://ptglab.com)

**This product is exclusively available under Proteintech Group brand and is not available to purchase from any other manufacturer.**

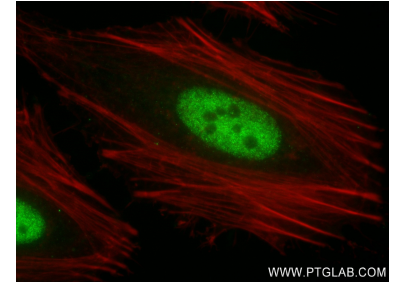
## Selected Validation Data



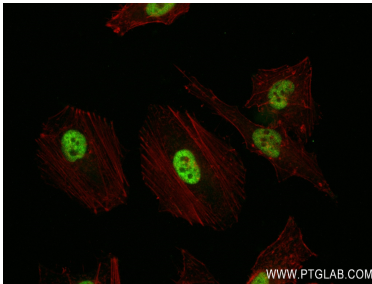
Immunohistochemical analysis of paraffin-embedded human lung cancer tissue slide using 83662-7-RR (CDK9 antibody) at dilution of 1:200 (under 20x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0). This data was developed using the same antibody clone with 83662-7-PBS in a different storage buffer formulation.



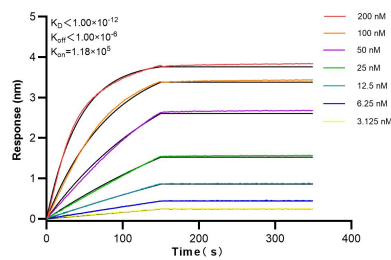
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Immunofluorescent analysis of (4% PFA) fixed HeLa cells using CDK9 antibody (83662-7-RR, Clone: 240600D7) at dilution of 1:250 and CoraLite@488-Conjugated AffiniPure Goat Anti-Rabbit IgG(H+L) (SA00013-2), CL594-Phalloidin (red). This data was developed using the same antibody clone with 83662-7-PBS in a different storage buffer formulation.



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Biolayer interferometry (BLI) kinetic assays of 83662-7-RR against Human CDK9 were performed. The affinity constant is below 1 pM.