

For Research Use Only

# CoraLite®555-conjugated CDK9 Polyclonal antibody



Catalog Number:CL555-11705

## Basic Information

|   |  |   |
|---|--|---|
| <b>Catalog Number:</b><br>CL555-11705                             | <b>GenBank Accession Number:</b><br>BC001968   | <b>Purification Method:</b><br>Antigen affinity purification          |
| <b>Size:</b><br>100ul , Concentration: 1000 µg/ml by<br>Nanodrop; | <b>GeneID (NCBI):</b><br>1025                  | <b>Recommended Dilutions:</b><br>IF 1:50-1:500                        |
| <b>Source:</b><br>Rabbit  | <b>Full Name:</b><br>cyclin-dependent kinase 9 | <b>Excitation/Emission maxima<br/>wavelengths:</b><br>555 nm / 570 nm |
| <b>IsoType:</b><br>IgG  | <b>Calculated MW:</b><br>372 aa, 43 kDa        |   |
| <b>Immunogen Catalog Number:</b><br>AG2318                        | <b>Observed MW:</b><br>43 kDa, 55 kDa          |   |

## Applications

|                                      |   |
|--------------------------------------|---|
| <b>Tested Applications:</b><br>IF    | <b>Positive Controls:</b><br>IF : HeLa cells, |
| <b>Species Specificity:</b><br>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). 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

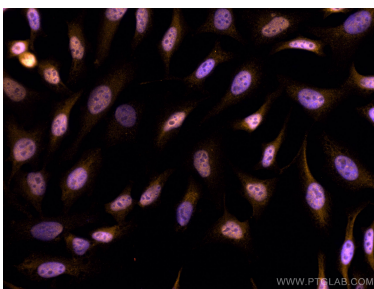
**Storage:**  
Store at -20°C. Avoid exposure to light.  
**Storage Buffer:**  
PBS with 50% Glycerol, 0.05% Proclin300, 0.5% BSA, pH 7.3.  
Aliquoting is unnecessary for -20°C storage

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

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 W: ptglab.com

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

## Selected Validation Data



Immunofluorescent analysis of (4% PFA) fixed HeLa cells using CoraLite®555 CDK9 antibody (CL555-11705) at dilution of 1:100.