

For Research Use Only

# CDK2 Recombinant antibody

Catalog Number: 83635-2-RR



## Basic Information

<b>Catalog Number:</b> 83635-2-RR	<b>GenBank Accession Number:</b> BC003065	<b>Purification Method:</b> Protein A purification
<b>Size:</b> 1000 µg/ml	<b>GeneID (NCBI):</b> 1017	<b>CloneNo.:</b> 240580G11
<b>Source:</b> Rabbit	<b>UNIPROT ID:</b> P24941	<b>Recommended Dilutions:</b> WB 1:5000-1:50000 IF/ICC 1:50-1:500
<b>Isotype:</b> IgG	<b>Full Name:</b> cyclin-dependent kinase 2	
<b>Immunogen Catalog Number:</b> AG17133	<b>Calculated MW:</b> 298 aa, 34 kDa	
	<b>Observed MW:</b> 30-33 kDa	

## Applications

<b>Tested Applications:</b> WB, IF/ICC, FC (Intra), ELISA	<b>Positive Controls:</b> WB : MCF-7 cells, K-562 cells, HEK-293 cells, HeLa cells, HepG2 cells, C6 cells
<b>Species Specificity:</b> human, rat	<b>IF/ICC :</b> HepG2 cells,

## Background Information

CDK2(Cyclin-dependent kinase 2) is also named as CDKN2 and belongs to the protein kinase superfamily,CMGC Ser/Thr protein kinase family, CDC2/CDKX subfamily.It is involved in the control of the cell cycle; essential for meiosis, but dispensable for mitosis.It has 2 isoforms produced by alternative splicing.

## Storage

**Storage:**  
Store at -20°C. Stable for one year after shipment.  
**Storage Buffer:**  
PBS with 0.02% sodium azide and 50% glycerol pH 7.3.  
Aliquoting is unnecessary for -20°C storage

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

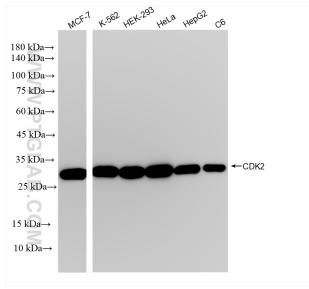
T: 4006900926

E: [Proteintech-CN@ptglab.com](mailto:Proteintech-CN@ptglab.com)

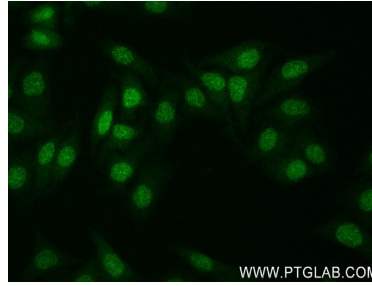
W: [ptgcn.com](http://ptgcn.com)

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

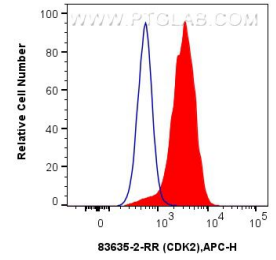
## Selected Validation Data



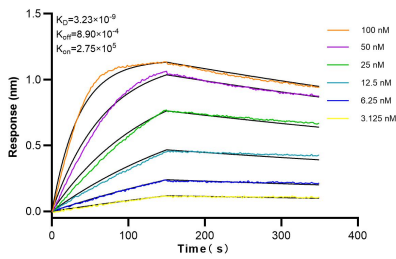
Various lysates were subjected to SDS PAGE followed by western blot with 83635-2-RR (CDK2 antibody) at dilution of 1:10000 incubated at room temperature for 1.5 hours.



Immunofluorescent analysis of (4% PFA) fixed HepG2 cells using CDK2 antibody (83635-2-RR, Clone: 240580G11) at dilution of 1:200 and CoraLite® 488-Conjugated AffiniPure Goat Anti-Rabbit IgG(H+L) (SA00013-2).



1x10<sup>6</sup> HeLa cells were intracellularly stained with 0.25 ug CDK2 Recombinant antibody (83635-2-RR, Clone:240580G11) and APC-Conjugated AffiniPure Goat Anti-Rabbit IgG(H+L)(red), or 0.25 ug Isotype Control (blue). Cells were fixed and permeabilized with True-Nuclear Transcription Factor Buffer Set.



Biolayer interferometry (BLI) kinetic assays of 83635-2-RR against Human CDK2 were performed. The affinity constant is 3.23 nM.