

For Research Use Only

# CDK2 Recombinant antibody

Catalog Number: 83635-5-RR



## Basic Information

Catalog Number:

83635-5-RR

Size:

1000  $\mu$ g/ml

Source:

Rabbit

Isotype:

IgG

Immunogen Catalog Number:

AG17133

GenBank Accession Number:

BC003065

GeneID (NCBI):

1017

UNIPROT ID:

P24941

Full Name:

cyclin-dependent kinase 2

Calculated MW:

298 aa, 34 kDa

Observed MW:

30 kDa

Purification Method:

Protein A purification

CloneNo.:

240580A6

Recommended Dilutions:

WB 1:5000-1:50000

IF/ICC 1:200-1:800

## Applications

Tested Applications:

WB, IF/ICC, FC (Intra), ELISA

Species Specificity:

human

Positive Controls:

WB : MCF-7 cells, Jurkat cells, K-562 cells, HEK-293 cells, HeLa cells, HepG2 cells

IF/ICC : HepG2 cells, HeLa cells

## Background Information

CDK2(Cyclin-dependent kinase 2) is also named as CDKN2 and belongs to the protein kinase superfamily. It is dispensable for myelination but is important for adult oligodendrocyte progenitor cell renewal, and could be one of the underlying mechanisms that drive adult progenitors to differentiate and thus regenerate myelin(PMID:21502361). G2 phase CCNA1/CDK2 controls the timing of entry into mitosis by controlling the subsequent activation of CCNB/CDK1, but also has an unexpected role in coordinating the activation of CCNB/CDK1 at the centrosome and in the nucleus(PMID:18372919).

## 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:

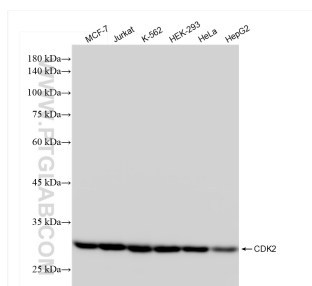
T: 4006900926

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

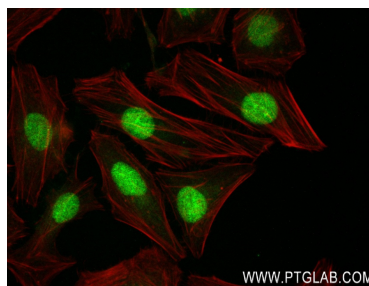
W: [ptgcn.com](http://ptgcn.com)

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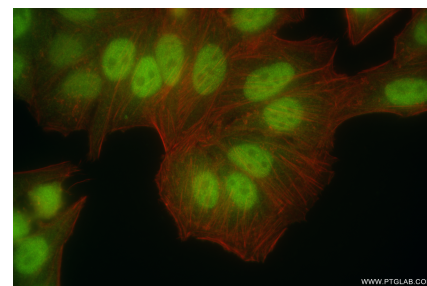
## Selected Validation Data



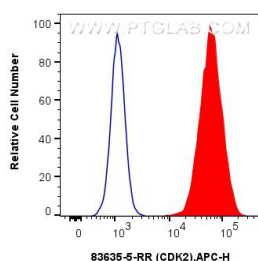
Various lysates were subjected to SDS PAGE followed by western blot with 83635-5-RR (CDK2 antibody) at dilution of 1:10000 incubated at room temperature for 1.5 hours.



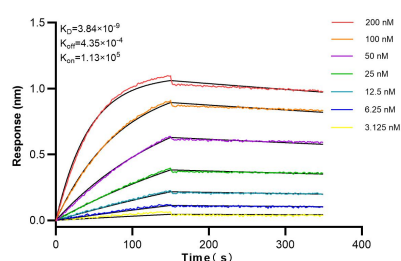
Immunofluorescent analysis of (4% PFA) fixed HeLa cells using CDK2 antibody (83635-5-RR, Clone: 240580A6) at dilution of 1:250 and CoraLite®488-Conjugated AffiniPure Goat Anti-Rabbit IgG(H+L) (SA00013-2), CL594-Phalloidin (red).



Immunofluorescent analysis of (4% PFA) fixed HepG2 cells using CDK2 antibody (83635-5-RR, Clone: 240580A6) at dilution of 1:400 and CoraLite®488-Conjugated Goat Anti-Rabbit IgG(H+L) (SA00013-2), CL594-Phalloidin (red).



1x10<sup>6</sup> HeLa cells were intracellularly stained with 0.25 ug CDK2 Recombinant antibody (83635-5-RR, Clone:240580A6) and APC-Conjugated 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 83635-5-RR against Human CDK2 were performed. The affinity constant is 3.84 nM.