

CDK2 Recombinant Rabbit Monoclonal Antibody Product Datasheet

Catalog# BX00066

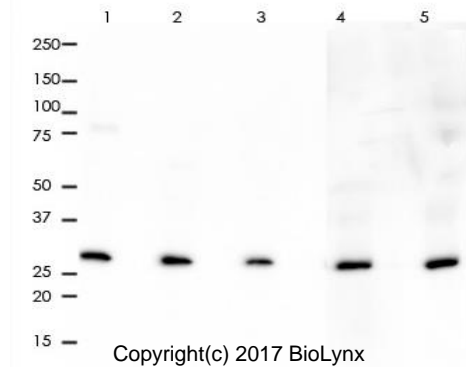
Clone# RR670

Predicted Molecular Wt: 34kDa
Species Cross-reactivity: Human Rat 0
Species cross-reactivity determined by WB
Applications: WB IF/ICC FC IP

Purity: ProA affinity purified IgG
Form: Liquid
Swissprot ID: P24941

Background:

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.



All lanes: Anti-CDK2 antibody at 1:1,000 dilution
 Predicted MW: 34 kDa
 Observed MW: 34 kDa

Lane 1: HeLa
 Lane 2: JurKat
 Lane 3: 293
 Lane 4: K562
 Lane 5: PC-12
 Lysate at 10 µg per lane
 2nd Ab:
 GAR HRP(H+L) 1:5,000
 Exposure: 20s

Immunogen:

A synthetic peptide corresponding to the C-term of CDK2 was used as an immunogen.

Storage Buffer:

PBS 59%, Sodium azide 0.01%, Glycerol 40%, BSA 0.05%.

Storage conditions:

-20°C.

Storage instructions:

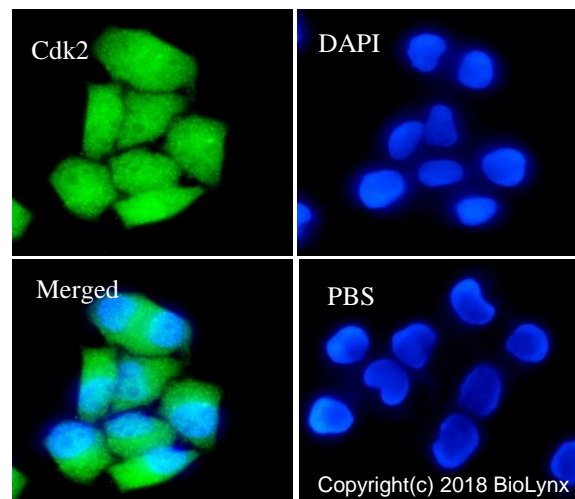
Shipped on blue ice. Upon delivery, aliquot, and store at -20°C. Avoid freeze / thaw cycles.

Recommended Dilutions:

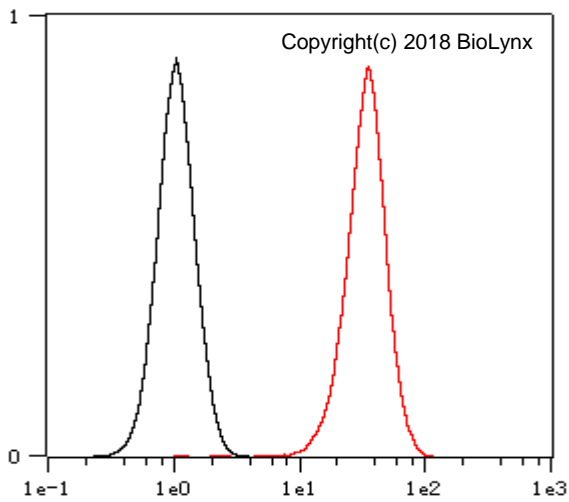
WB: 1:1,000 - 1:2,000
 IF/ICC: 1:10 - 1:50
 FC: 1:40 - 1:200
 IP: 1:20

Background References:

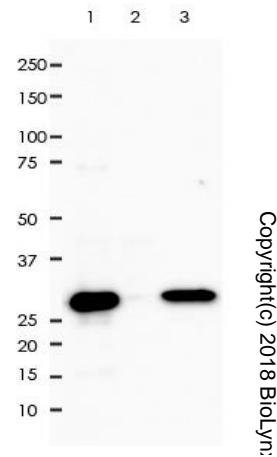
- Hu R et al. Tumour Biol 37:12181-12191 (2016).
- Wang J et al. Transl Oncol 9:548-556 (2016).



RR670 staining CDK2 in HeLa cells by IF/ICC (immunofluorescence/immunocytochemistry). Cells were fixed with paraformaldehyde, permeabilized with 0.1% Triton X-100 and blocked with 10% goat serum for half an hour at room temperature. Samples were incubated with primary antibody (1:50) at 4°C. An Alexa Fluor® 488-conjugated Goat Anti-Rabbit IgG polyclonal was used as the secondary antibody (1:500). DAPI (blue) was used as the nuclear counter stain. Control: PBS and secondary antibody, An Alexa Fluor® 488-conjugated Goat Anti-Rabbit IgG (1:500).



Overlay histogram showing HeLa cells stained with RR670 (Red). The cells were fixed with 4% paraformaldehyde (10 min) and then permeabilized with 0.1% TritonX-100 for 15 min. The cells were then incubated in the antibody (RR670, 1:200 dilution) in 1x PBS/1% BSA for 30 min at room temperature. The secondary antibody used was a Goat Anti-Rabbit Alexa Fluor® 488 (IgG H+L) at 1:2,000 dilution for 20 min at room temperature. Unlabelled sample (Black) was used as a control.



CDK2 was immunoprecipitated from 0.4mg of Jurkat whole cell lysate with RR670 at 1:20 dilution.

2nd Ab:
 GAR HRP for IP 1:500

Lane 1: RR670 IP in Jurkat whole cell lysate
 Lane 2: PBS instead of RR670 in Jurkat whole cell lysate
 Lane 3: Jurkat whole cell lysate, 10 µg (input)

Product QC'd by:



For research use only. Not for use in diagnostic or therapeutic applications.