

## Cdk2 Rabbit mAb

Catalog No: #48670

Package Size: #48670-1 50ul #48670-2 100ul

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## Description

Product Name	Cdk2 Rabbit mAb
Host Species	Recombinant Rabbit
Clonality	Monoclonal
Clone No.	SR01-01
Purification	ProA affinity purified
Applications	WB, ICC/IF, IHC, IP
Species Reactivity	Human;Mouse;Rat
Immunogen Description	recombinant protein
Conjugates	Unconjugated
Other Names	Cdc2 related protein kinase antibody cdc2-related protein kinase antibody CDC28 antibody CDC2A antibody Cdk 2 antibody CDK1 antibody CDK2 antibody CDK2_HUMAN antibody CDKN2 antibody Cell division kinase 2 antibody Cell division protein kinase 2 antibody Cyclin dependent kinase 2 antibody cyclin dependent kinase 2-alpha antibody Cyclin-dependent kinase 2 antibody kinase Cdc2 antibody MPF antibody p33 protein kinase antibody p33(CDK2) antibody
Accession No.	Swiss-Prot#:P24941
Calculated MW	34 kDa
SDS-PAGE MW	34 kDa
Formulation	1*TBS (pH7.4), 1%BSA, 40%Glycerol. Preservative: 0.05% Sodium Azide.
Storage	Store at -20°C

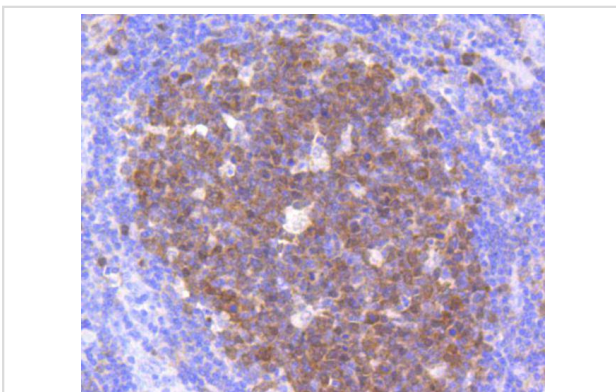
## Application Details

WB: 1:1,000-5,000

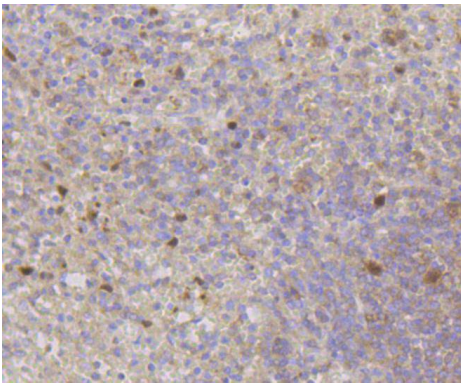
IHC: 1:50-1:200

ICC: 1:50-1:200

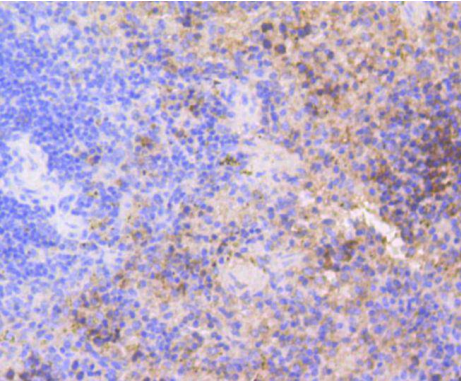
## Images



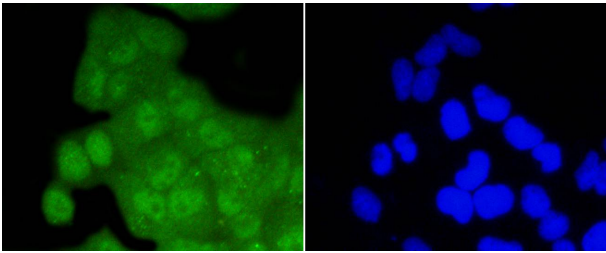
Immunohistochemical analysis of paraffin-embedded human tonsil tissue using anti-Cdk2 antibody. Counter stained with hematoxylin.



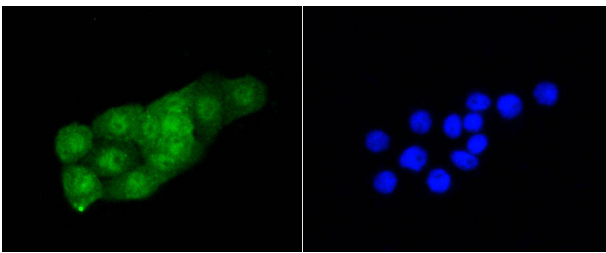
Immunohistochemical analysis of paraffin-embedded human spleen tissue using anti-Cdk2 antibody. Counter stained with hematoxylin.



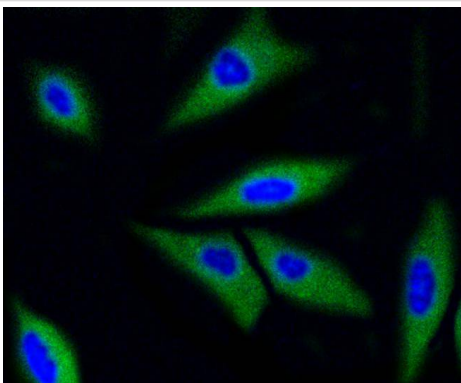
Immunohistochemical analysis of paraffin-embedded mouse spleen tissue using anti-Cdk2 antibody. Counter stained with hematoxylin.



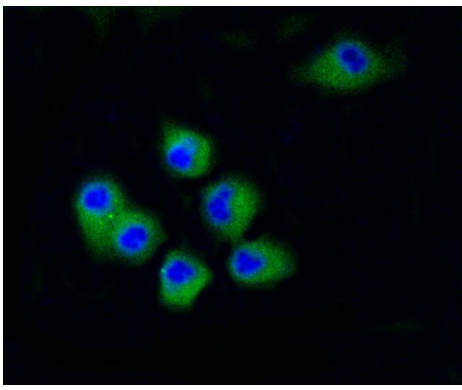
ICC staining Cdk2 in HeLa cells (green). The nuclear counter stain is DAPI (blue). Cells were fixed in paraformaldehyde, permeabilised with 0.25% Triton X100/PBS.



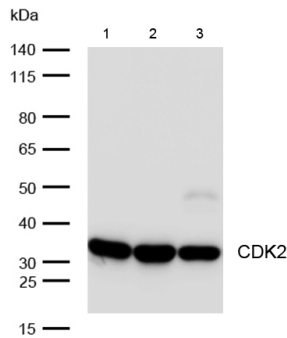
ICC staining Cdk2 in CRC cells (green). The nuclear counter stain is DAPI (blue). Cells were fixed in paraformaldehyde, permeabilised with 0.25% Triton X100/PBS.



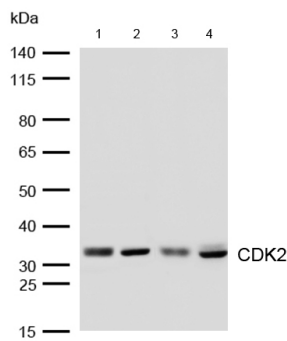
ICC staining Cdk2 in SH-SY-5Y cells (green). Cells were fixed in paraformaldehyde, permeabilised with 0.25% Triton X100/PBS.



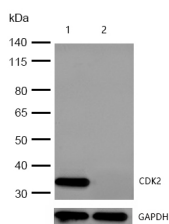
ICC staining Cdk2 in N2A cells (green). Cells were fixed in paraformaldehyde, permeabilised with 0.25% Triton X100/PBS.



All lanes: CDK2 Rabbit mAb at 1/1k dilution  
 Lane 1 : HeLa whole cell lysates  
 Lane 2 : 293 whole cell lysates  
 Lane 3 : C6 whole cell lysates  
 Lysates/proteins at 20 µg per lane.  
 Secondary All lanes : Goat Anti-Rabbit IgG H&L (HRP) at 1/20000 dilution  
 Predicted band size: 34 kDa  
 Observed band size: 34 kDa  
 Exposure time: 2 seconds



All lanes: CDK2 Rabbit mAb at 1/1k dilution  
 Lane 1 : Mouse kidney lysates  
 Lane 2 : Mouse brain lysates  
 Lane 3 : Rat kidney lysates  
 Lane 4 : Rat brain lysates  
 Lysates/proteins at 20 µg per lane.  
 Secondary All lanes : Goat Anti-Rabbit IgG H&L (HRP) at 1/20000 dilution  
 Predicted band size: 34 kDa  
 Observed band size: 34 kDa  
 Exposure time: 4 seconds



All lanes: CDK2 Rabbit mAb at 1/1k dilution  
 Lane 1 : Wild-type HeLa cell lysate  
 Lane 2 : CDK2 knockdown HeLa cell lysate  
 Lysates/proteins at 20 µg per lane.

## Background

Cyclin-dependent kinase 2 (p33CDK2) is an important component of the cell cycle machinery. It acts at the G1-S transition to promote the E2F transcriptional program and the initiation of DNA synthesis, and modulates G2 progression; controls the timing of entry into mitosis/meiosis by controlling the subsequent activation of cyclin B/CDK1 by phosphorylation, and coordinates the activation of cyclin B/CDK1 at the centrosome and in the nucleus. Inhibition of CDK2-cyclin complexes can also be attributed to association with p27 Kip1 and p21 Waf1/Cip1.

## References

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1. "Human Speedy: a novel cell cycle regulator that enhances proliferation through activation of Cdk2." Porter L.A., Dellinger R.W., Tynan J.A., Barnes E.A., Kong M., Lenormand J.-L., Donoghue D.J. *J. Cell Biol.* 157:357-366(2002).
2. "Cyclin A/cdk2 coordinates centrosomal and nuclear mitotic events." De Boer L., Oakes V., Beamish H., Giles N., Stevens F., Somodevilla-Torres M., Desouza C., Gabrielli B. *Oncogene* 27:4261-4268(2008).

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Note: This product is for in vitro research use only and is not intended for use in humans or animals.