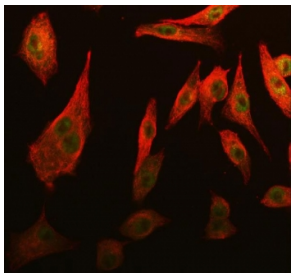
Cdk2 Antibody (R32030)

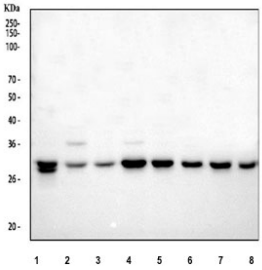
Catalog No.	Formulation	Size
R32030	0.5mg/ml if reconstituted with 0.2ml sterile DI water	100 ug

Bulk quote request

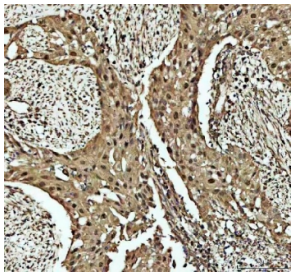
Availability	1-3 business days
Species Reactivity	Human
Format	Antigen affinity purified
Host	Rabbit
Clonality	Polyclonal (rabbit origin)
Isotype	Rabbit IgG
Purity	Antigen affinity
Buffer	Lyophilized from 1X PBS with 2% Trehalose
UniProt	P24941
Localization	Nuclear and cytoplasmic
Applications	Western blot: 0.5-1ug/ml Immunohistochemistry (FFPE): 2-5ug/ml Immunofluorescence: 5ug/ml
Limitations	This Cdk2 antibody is available for research use only.



Immunofluorescent staining of FFPE human A549 cells with Cdk2 antibody (green) and Beta Tubulin mAb (red). HIER: steam section in pH6 citrate buffer for 20 min.



Western blot testing of human 1) Jurkat, 2) HepG2, 3) U-2 OS, 4) K562, 5) T-47D, 6) Caco-2, 7) 293T and 8) PC-3 cell lysate with Cdk2 antibody. Predicted molecular weight ~33 kDa.



IHC staining of FFPE human invasive urothelial carcinoma of the bladder with squamous differentiation tissue with Cdk2 antibody. HIER: boil tissue sections in pH8 EDTA for 20 min and allow to cool before testing.

Description

CDK2, Cyclin-Dependent Kinase2, is also known as P33. The CDK2 protein is highly homologous to p34 (CDC2) kinase and more significantly homologous to Xenopus Eg1 kinase, suggesting that CDK2 is the human homolog of Eg1. The CDK2 gene is mapped to 12q13, the same region to which the CDK4 gene maps. Human cyclin A binds independently to 2 kinases, p34 (cdc2) or p33. In adenovirus-transformed cells, the viral E1A oncoprotein seems to associate with p33/cyclin A but not with p34(cdc2)/cyclin A. The gene for p33 shares 65% sequence identity with p34(cdc2). P33(cdk2) plays a unique role in cell cycle regulation of vertebrate cells.

Application Notes

Optimal dilution of the Cdk2 antibody should be determined by the researcher.

Immunogen

Amino acids 81-298 of human Cdk2 were used as the immunogen for the Cdk2 antibody.

Storage

After reconstitution, the Cdk2 antibody can be stored for up to one month at 4oC. For long-term, aliquot and store at -20oC. Avoid repeated freezing and thawing.

Ordering: Phone: 858.663.9055 | Fax: 1.267.821.0800 | Email: info@nsjbio.com
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