

# Product Datasheet

## CDC2/CDK1 [p Thr161] Antibody (PSH03-42) NBP3-32753

Unit Size: 100 ul

Store at 4C short term. Aliquot and store at -20C long term. Avoid freeze-thaw cycles.

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**NBP3-32753****CDC2/CDK1 [p Thr161] Antibody (PSH03-42)**

<b>Product Information</b>	
<b>Unit Size</b>	100 ul
<b>Concentration</b>	1 mg/ml
<b>Storage</b>	Store at 4C short term. Aliquot and store at -20C long term. Avoid freeze-thaw cycles.
<b>Clonality</b>	Monoclonal
<b>Clone</b>	PSH03-42
<b>Preservative</b>	0.05% Sodium Azide
<b>Isotype</b>	IgG
<b>Purity</b>	Protein A purified
<b>Buffer</b>	PBS (pH7.4), 0.1% BSA and 40% Glycerol
<b>Target Molecular Weight</b>	34 kDa

<b>Product Description</b>	
<b>Description</b>	Novus Biologicals Rabbit CDC2/CDK1 [p Thr161] Antibody (PSH03-42) (NBP3-32753) is a recombinant monoclonal antibody validated for use in IHC, WB, Flow and ICC/IF. All Novus Biologicals antibodies are covered by our 100% guarantee.
<b>Host</b>	Rabbit
<b>Gene ID</b>	983
<b>Gene Symbol</b>	CDK1
<b>Species</b>	Human, Mouse, Rat
<b>Immunogen</b>	Synthetic phosphopeptide corresponding to residues surrounding Thr161 of CDC2/CDK1. (Uniprot: P06493)

<b>Product Application Details</b>	
<b>Applications</b>	Western Blot, Immunohistochemistry-Paraffin, Flow Cytometry, Immunocytochemistry/ Immunofluorescence, Immunohistochemistry
<b>Recommended Dilutions</b>	Western Blot 1:2000, Flow Cytometry 1:100, Immunohistochemistry, Immunocytochemistry/ Immunofluorescence 1:2500, Immunohistochemistry-Paraffin 1:200



## Images

Western Blot: CDC2/CDK1 [p Thr161] Antibody (PSH03-42) [NBP3-32753] - Western blot analysis of CDC2/CDK1 on different lysates with Rabbit anti-CDC2/CDK1 antibody (NBP3-32753) at 1/2,000 dilution.

Lane 1: HeLa cell lysate  
 Lane 2: HeLa treated with 100nM Calyculin A for 30 minutes cell lysate  
 Lane 3: Jurkat cell lysate  
 Lane 4: Jurkat treated with 100nM Calyculin A for 30 minutes cell lysate  
 Lane 5: NIH/3T3 cell lysate  
 Lane 6: NIH/3T3 treated with 100nM Calyculin A for 30 minutes cell lysate  
 Lane 7: PC-12 cell lysate  
 Lane 8: PC-12 treated with UV for 1 hour cell lysate

Lysates/proteins at 30 ug/Lane.

Predicted band size: 34 kDa  
 Observed band size: 34 kDa

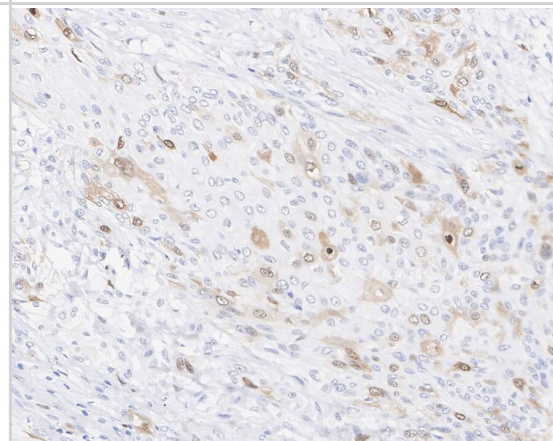
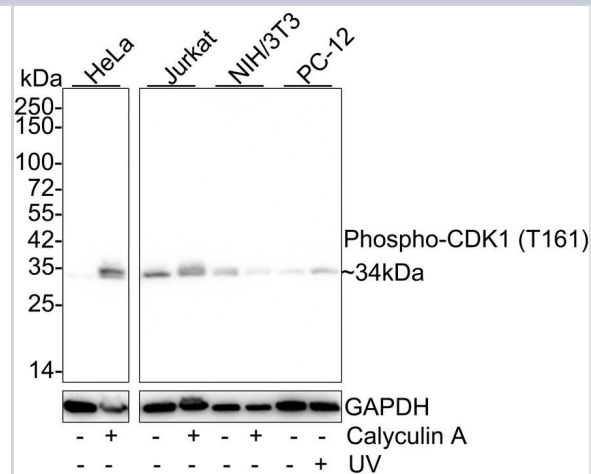
Exposure time: 5 minutes;

4-20% SDS-PAGE gel.

Proteins were transferred to a PVDF membrane and blocked with 5% NFDM/TBST for 1 hour at room temperature. The primary antibody (NBP3-32753) at 1/2,000 dilution was used in 5% NFDM/TBST at 4C overnight. Goat Anti-Rabbit IgG - HRP Secondary Antibody at 1/50,000 dilution was used for 1 hour at room temperature.

Immunohistochemistry: CDC2/CDK1 [p Thr161] Antibody (PSH03-42) [NBP3-32753] - Immunohistochemical analysis of paraffin-embedded human cervix cancer tissue with Rabbit anti-CDC2/CDK1 antibody (NBP3-32753) at 1/200 dilution.

The section was pre-treated using heat mediated antigen retrieval with sodium citrate buffer (pH 6.0) for 2 minutes. The tissues were blocked in 1% BSA for 20 minutes at room temperature, washed with ddH<sub>2</sub>O and PBS, and then probed with the primary antibody (NBP3-32753) at 1/200 dilution for 1 hour at room temperature. The detection was performed using an HRP conjugated compact polymer system. DAB was used as the chromogen. Tissues were counterstained with hematoxylin and mounted with DPX.



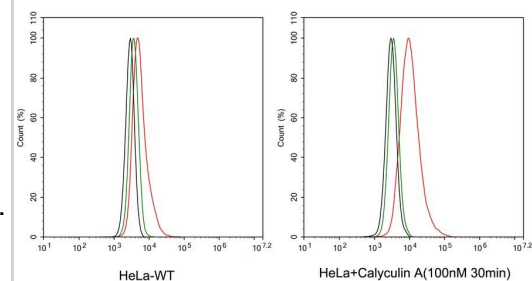
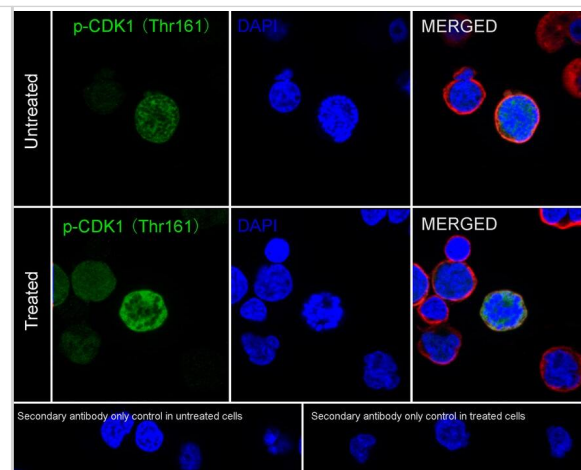
**Immunocytochemistry/ Immunofluorescence: CDC2/CDK1 [p Thr161] Antibody (PSH03-42) [NBP3-32753]** - Immunocytochemistry analysis of Jurkat cells treated with or without 100nM Calyculin A for 30 minutes labeling CDC2/CDK1 with Rabbit anti-CDC2/CDK1 antibody (NBP3-32753) at 1/2,500 dilution.

Cells were fixed in 100% precooled methanol for 5 minutes at room temperature, then blocked with 1% BSA in 10% negative goat serum for 1 hour at room temperature. Cells were then incubated with Rabbit anti-CDC2/CDK1 antibody (NBP3-32753) at 1/2,500 dilution in 1% BSA in PBST overnight at 4 °C. Goat Anti-Rabbit IgG H&L (iFluor™ 488) was used as the secondary antibody at 1/1,000 dilution. PBS instead of the primary antibody was used as the secondary antibody only control. Nuclear DNA was labelled in blue with DAPI.

Beta tubulin (red) was stained at 1/100 dilution overnight at +4 °C. Goat Anti-Mouse IgG H&L (iFluor™ 594) was used as the secondary antibody at 1/1,000 dilution.

**Flow Cytometry: CDC2/CDK1 [p Thr161] Antibody (PSH03-42) [NBP3-32753]** - Flow cytometric analysis of HeLa cells treated with or without 100nM Calyculin A for 30 minutes labeling CDC2/CDK1.

Cells were fixed and permeabilized. Then stained with the primary antibody (NBP3-32753, 1/100) (red) compared with Rabbit IgG Isotype Control (green). After incubation of the primary antibody at +4 °C for an hour, the cells were stained with a iFluor™ 488 conjugate-Goat anti-Rabbit IgG Secondary antibody at 1/1,000 dilution for 30 minutes at +4 °C. Unlabelled sample was used as a control (cells without incubation with primary antibody; black).





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### **Products Related to NBP3-32753**

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NBP2-33376H	Blue Marker Antibody (6F4-F6) [HRP]
HAF008	Goat anti-Rabbit IgG Secondary Antibody [HRP]
NB7160	Goat anti-Rabbit IgG (H+L) Secondary Antibody [HRP]
NBP2-24891	Rabbit IgG Isotype Control

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### **Limitations**

This product is for research use only and is not approved for use in humans or in clinical diagnosis. Primary Antibodies are guaranteed for 1 year from date of receipt.

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