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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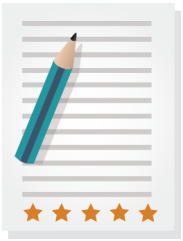


NBP3-32753

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

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

Product Description	
Host	Rabbit
Gene ID	983
Gene Symbol	CDK1
Species	Human, Mouse, Rat
Immunogen	Synthetic phosphopeptide corresponding to residues surrounding Thr161 of CDC2/CDK1. (Uniprot: P06493)

Product Application Details	
Applications	Western Blot, Immunohistochemistry-Paraffin, Flow Cytometry, Immunocytochemistry/ Immunofluorescence, Immunohistochemistry
Recommended Dilutions	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

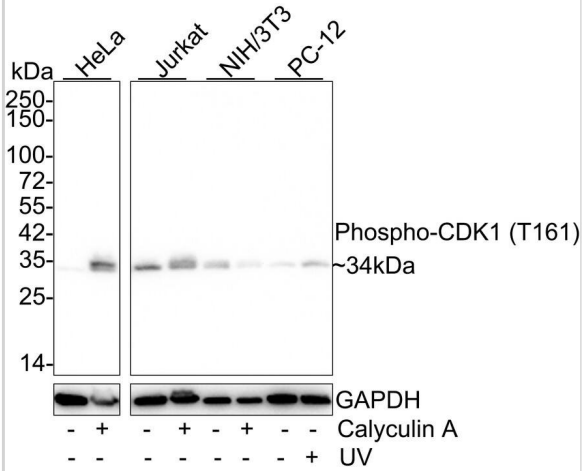
Lysates/proteins at 30 ug/Lane.

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

Exposure time: 5 minutes;

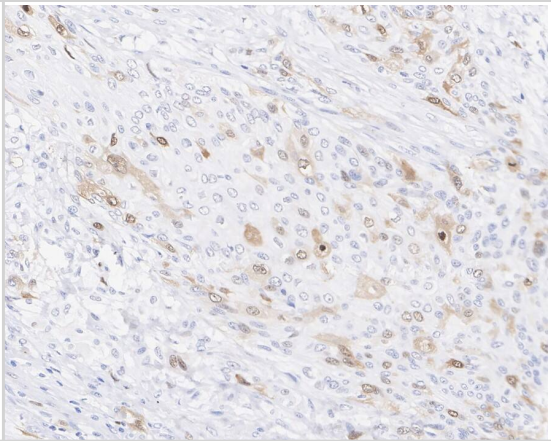
4-20% SDS-PAGE gel.

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.

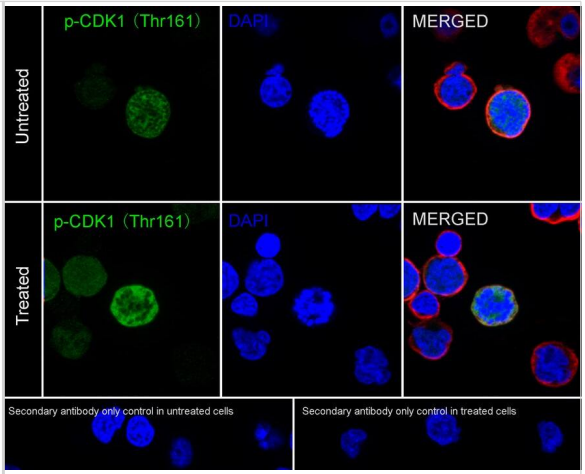
The section was pre-treated using heat mediated antigen retrieval with sodium citrate buffer (pH 6.0) for 2 minutes. The tissues were blocked in 1% BSA for 20 minutes at room temperature, washed with ddH2O and PBS, and then probed with the primary antibody (NBP3-32753) at 1/200 dilution for 1 hour at 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.

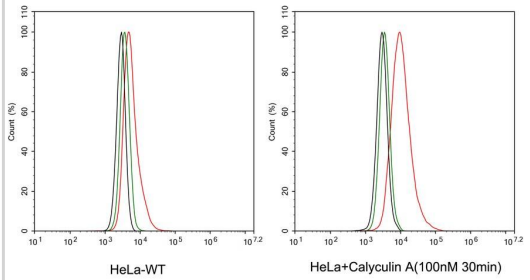
Cells were fixed in 100% precooled methanol for 5 minutes at room temperature, then blocked with 1% BSA in 10% negative goat serum for 1 hour at room temperature. Cells were then incubated with Rabbit anti-CDC2/CDK1 antibody (NBP3-32753) at 1/2,500 dilution in 1% BSA in PBST overnight at 4 □. Goat Anti-Rabbit 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□. 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□ 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□. Unlabelled sample was used as a control (cells without incubation with primary antibody; black).



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Products Related to NBP3-32753

HAF008	Goat anti-Rabbit IgG Secondary Antibody [HRP]
NB7160	Goat anti-Rabbit IgG (H+L) Secondary Antibody [HRP]
NBP2-24891	Rabbit IgG Isotype Control
NBP2-51886-0.05mg	Recombinant Human CDC2/CDK1 His Protein

Limitations
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