

CDk1 Antibody

Catalog No: #48571



Package Size: #48571-1 50ul #48571-2 100ul

Orders: [order@signalwayantibody.com](mailto:order@signalwayantibody.com)  
Support: [tech@signalwayantibody.com](mailto:tech@signalwayantibody.com)

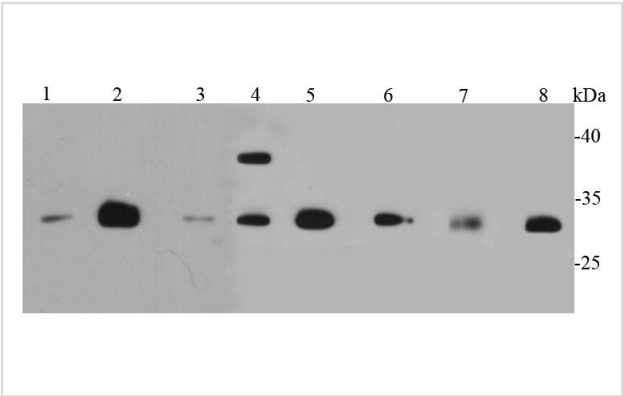
Description

Product Name	CDk1 Antibody
Host Species	Rabbit
Clonality	Polyclonal
Purification	Peptide affinity purified
Applications	WB, ICC, IHC, FC
Species Reactivity	Hu, Ms, Rt
Immunogen Description	peptide
Other Names	Cdc 2 antibody Cdc2 antibody CDC28A antibody CDK 1 antibody CDK1 antibody CDK1_HUMAN antibody CDKN1 antibody CELL CYCLE CONTROLLER CDC2 antibody Cell division control protein 2 antibody Cell division control protein 2 homolog antibody Cell division cycle 2 G1 to S and G2 to M antibody Cell division protein kinase 1 antibody Cell Division Cycle 2 Protein antibody Cyclin Dependent Kinase 1 antibody Cyclin-dependent kinase 1 antibody DKFZp686L20222 antibody MGC111195 antibody p34 Cdk1 antibody p34 protein kinase antibody P34CDC2 antibody
Accession No.	Swiss-Prot#:P06493
Uniprot	P06493
GeneID	983;
Calculated MW	34 kDa
Formulation	1*TBS (pH7.4), 1%BSA, 40%Glycerol. Preservative: 0.05% Sodium Azide.
Storage	Store at -20°C

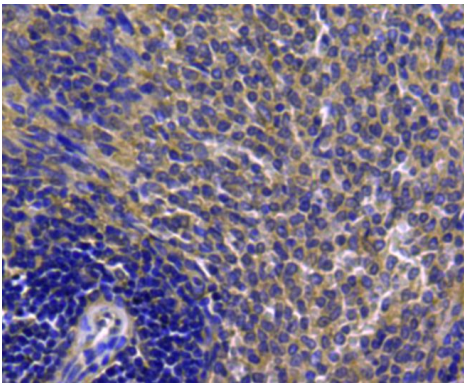
Application Details

WB: 1:500IHC: 1:200 ICC: 1:200 FC: 1:100-1:200

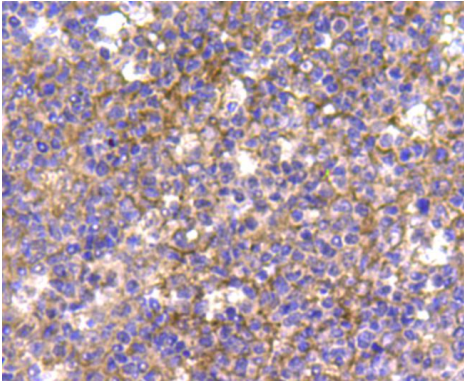
Images



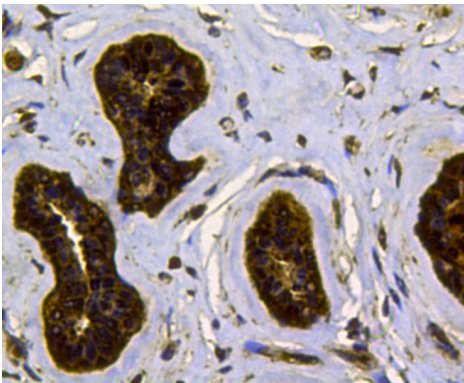
Western blot analysis of CDK1 on different cell lysates using anti-CDK1 antibody at 1/500 dilution. Positive control: Lane 1: MCF-7 Lane 2: Jurkat Lane 3: PC12 Lane 4: HepG2 Lane 5: Hela Lane 6: NIH/3T3 Lane 7: Mouse liver Lane 8: SKBR3



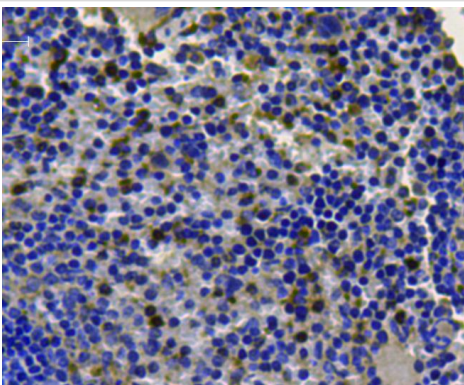
Immunohistochemical analysis of paraffin-embedded rat spleen tissue using anti-CDk1 antibody. Counter stained with hematoxylin.



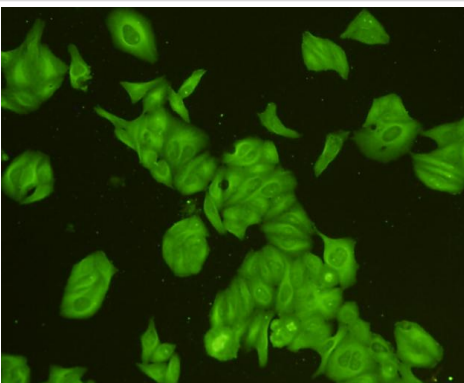
Immunohistochemical analysis of paraffin-embedded human tonsil tissue using anti-CDk1 antibody. Counter stained with hematoxylin



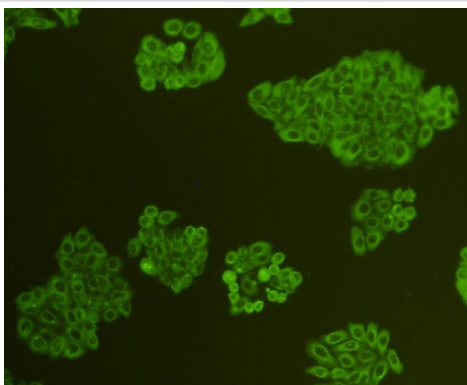
Immunohistochemical analysis of paraffin-embedded human breast cancer tissue using anti-CDk1 antibody. Counter stained with hematoxylin



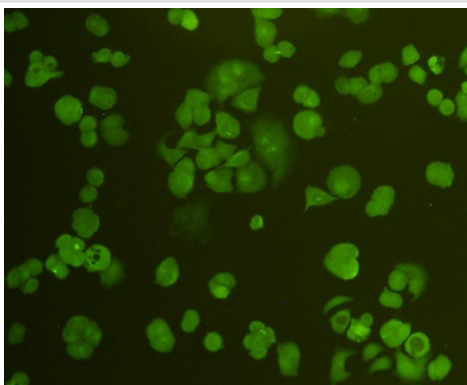
Immunohistochemical analysis of paraffin-embedded mouse spleen tissue using anti-CDk1 antibody. Counter stained with hematoxylin.



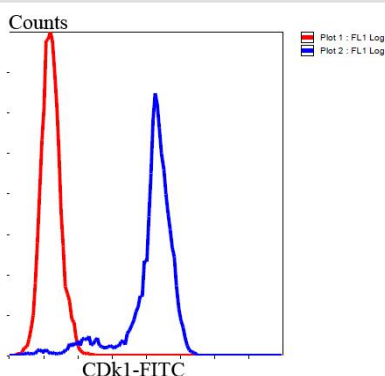
ICC staining CDk1 in HeLa cells (green). Cells were fixed in paraformaldehyde, permeabilised with 0.25% Triton X100/PBS.



ICC staining CDk1 in HepG2 cells (green). Cells were fixed in paraformaldehyde, permeabilised with 0.25% Triton X100/PBS.



ICC staining CDk1 in MCF-7 cells (green). Cells were fixed in paraformaldehyde, permeabilised with 0.25% Triton X100/PBS.



Flow cytometric analysis of HeLa cells with CDk1 antibody at 1/100 dilution (blue) compared with an unlabelled control (cells without incubation with primary antibody; red). Goat anti rabbit IgG (FITC) was used as the secondary antibody.

## Background

Cdk1 is a small protein (approximately 34 kilodaltons), and is highly conserved. Cdk1 is comprised mostly by the bare protein kinase motif, which other protein kinases share. Cdk1, like other kinases, contains a cleft in which ATP fits. When bound to its cyclin partners, Cdk1 phosphorylation leads to cell cycle progression. Given its essential role in cell cycle progression, Cdk1 is highly regulated. Most obviously, Cdk1 is regulated by its binding with its cyclin partners. Cyclin binding alters access to the active site of Cdk1, allowing for Cdk1 activity; furthermore, cyclins impart specificity to Cdk1 activity. At least some cyclins contain a hydrophobic patch which may directly interact with substrates, conferring target specificity. Furthermore, cyclins can target Cdk1 to particular subcellular locations.

## References

Note: This product is for in vitro research use only