Product Datasheet

CDK1 Antibody

Catalog No: #32020

Package Size: #32020-1 50ul #32020-2 100ul

Orders: order@signalwayantibody.com
Support: tech@signalwayantibody.com

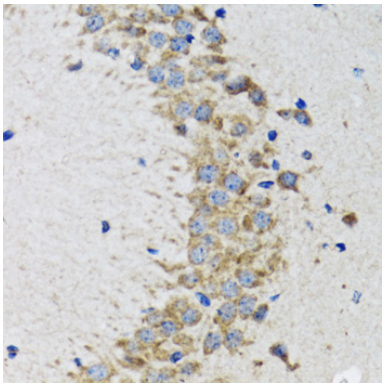
Description

Product Name	CDK1 Antibody
Host Species	Rabbit
Clonality	Polyclonal
Purification	Antibodies were purified by affinity purification using immunogen.
Applications	WB,IHC,IF
Species Reactivity	Human,Mouse,Rat
Specificity	The antibody detects endogenous level of total CDK1 protein.
Immunogen Type	Peptide
Immunogen Description	A synthetic peptide of human CDK1.
Target Name	CDK1
Other Names	CDC2; CDC28A; CDK1; DKFZp686L20222; MGC111195
Accession No.	Swiss-Prot:P06493NCBI Gene ID:983
Uniprot	P06493
GeneID	983;
SDS-PAGE MW	34KD
Concentration	1.0mg/ml
Formulation	Supplied at 1.0mg/mL in phosphate buffered saline (without Mg2+ and Ca2+), pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol.
Storage	Store at -20°C

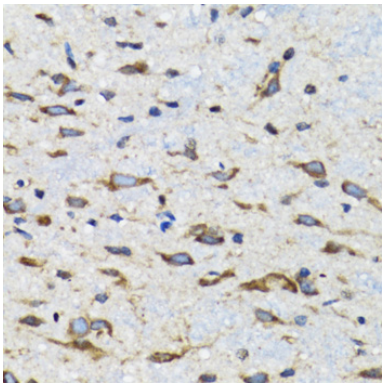
Application Details

WB□1:500 - 1:2000IHC□1:50 - 1:100IF□1:50 - 1:200

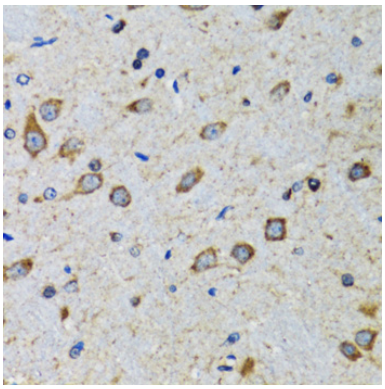
Images



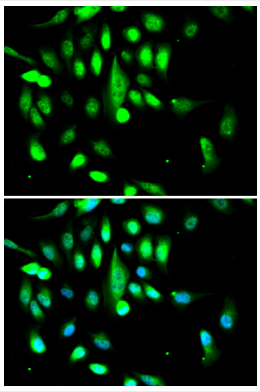
Immunohistochemistry of paraffin-embedded rat brain using CDK1 at dilution of 1:100 (40x lens).



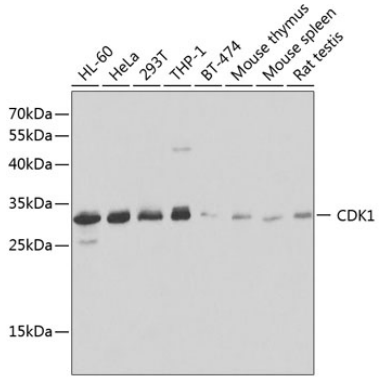
Immunohistochemistry of paraffin-embedded mouse spinal cord using CDK1 at dilution of 1:100 (40x lens).



Immunohistochemistry of paraffin-embedded mouse brain using CDK1 at dilution of 1:100 (40x lens).



Immunofluorescence analysis of A549 cells using CDK1 . Blue: DAPI for nuclear staining.



Western blot analysis of extracts of various cell lines, using CDK1 at 1:1000 dilution.

Background

The entry of eukaryotic cells into mitosis is regulated by cdc2 kinase activation, a process controlled at several steps including cyclin binding and phosphorylation of cdc2 at Thr161 (1). However, the critical regulatory step in activating cdc2 during progression into mitosis appears to be dephosphorylation of cdc2 at Thr14 and Tyr15 (2). Phosphorylation at Thr14 and Tyr15, resulting in inhibition of cdc2, can be carried out by Wee1 and Myt1 protein kinases (3,4). The cdc25 phosphatase may be responsible for removal of phosphates at Thr14 and Tyr15 and subsequent activation of cdc2 (1,5).

Note: This product is for in vitro research use only