Datasheet for ABIN3020136

anti-CDK1 antibody (pThr161)

4 Images

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Overview

Quantity:	100 µL
Target:	CDK1
Binding Specificity:	pThr161
Reactivity:	Human
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This CDK1 antibody is un-conjugated
Application:	Western Blotting (WB), Immunohistochemistry (IHC), Immunoprecipitation (IP)

Product Details

Immunogen:	A synthetic phosphorylated peptide around T161 of human CDK1 (NP_001777.1).
Sequence:	VYTHE
Isotype:	IgG
Cross-Reactivity:	Human, Mouse
Characteristics:	Phosphorylated Antibodies
Purification:	Affinity purification

Target Details

Target:	CDK1
Alternative Name:	CDK1 (CDK1 Products)

Target Details

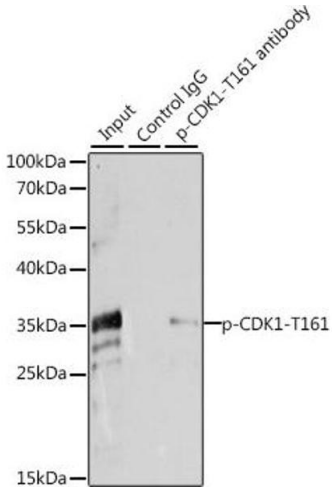
Background:	The protein encoded by this gene is a member of the Ser/Thr protein kinase family. This protein is a catalytic subunit of the highly conserved protein kinase complex known as M-phase promoting factor (MPF), which is essential for G1/S and G2/M phase transitions of eukaryotic cell cycle. Mitotic cyclins stably associate with this protein and function as regulatory subunits. The kinase activity of this protein is controlled by cyclin accumulation and destruction through the cell cycle. The phosphorylation and dephosphorylation of this protein also play important regulatory roles in cell cycle control. Alternatively spliced transcript variants encoding different isoforms have been found for this gene.,CDK1,CDC2,CDC28A,P34CDC2,Epigenetics & Nuclear Signaling,Signal Transduction,G protein signaling,Kinase,Serine/threonine kinases,ErbB-HER Signaling Pathway,Cell Biology & Developmental Biology,Apoptosis,Cell Cycle,Centrosome,G2/M DNA Damage Checkpoint,Microtubules,Immunology & Inflammation,Neuroscience,Neurodegenerative Diseases,Protein phosphorylation,CDK1
Molecular Weight:	27 kDa/34 kDa
Gene ID:	983
UniProt:	P06493
Pathways:	Cell Division Cycle, Fc-epsilon Receptor Signaling Pathway, Neurotrophin Signaling Pathway, Activation of Innate immune Response, Mitotic G1-G1/S Phases, DNA Replication, M Phase, Toll-Like Receptors Cascades, Synthesis of DNA

Application Details

Application Notes:	WB,1:500 - 1:2000,IHC,1:50 - 1:200,IP,1:50 - 1:100
Restrictions:	For Research Use only

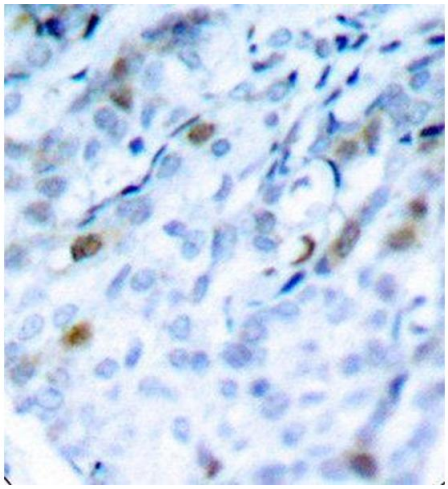
Handling

Buffer:	PBS with 0.02 % sodium azide,50 % glycerol, pH 7.3.
Preservative:	Sodium azide
Precaution of Use:	This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.
Storage:	-20 °C
Storage Comment:	Store at -20°C. Avoid freeze / thaw cycles.



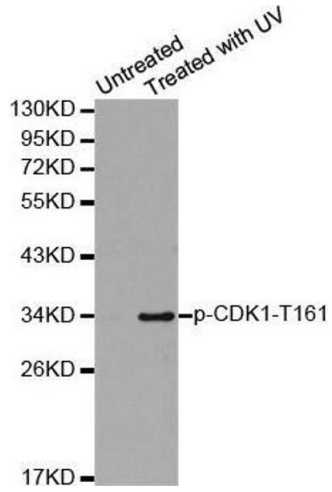
Immunoprecipitation

Image 1. Immunoprecipitation analysis of 200 µg extracts of HeLa cells, using 3 µg Phospho-CDK1-T161 pAb (ABIN3020135, ABIN3020136, ABIN3020137, ABIN1681454 and ABIN6225511). Western blot was performed from the immunoprecipitate using Phospho-CDK1-T161 pAb (ABIN3020135, ABIN3020136, ABIN3020137, ABIN1681454 and ABIN6225511) at a dilition of 1:1000. HeLa cells were treated by EGF (100 ng/mL) at 37 °C for 30 minutes after serum-starvation overnight.



Immunohistochemistry

Image 2.



Western Blotting

Image 3. Western blot analysis of extracts from Hela cells using Phospho-CDK1-T161 antibody.

Please check the product details page for more images. Overall 4 images are available for ABIN3020136.