## antibodies .- online.com







## **CDK2 Protein (His tag)**



$\sim$					
	1//6	r	<b>V</b> I	$\Theta$	Λ

Quantity:	50 μg	
Target:	CDK2	
Origin:	Human	
Source:	Escherichia coli (E. coli)	
Protein Type:	Recombinant	
Purification tag / Conjugate:	This CDK2 protein is labelled with His tag.	
Product Details		
Purpose:	Recombinant Human CDK2 Protein (E.coli, His Tag)	
Sequence:	Met 1-Leu298	
Characteristics:	Recombinant Human Cyclin-Dependent Kinase 2 is produced by our E.coli expression system	
	and the target gene encoding Met1-Leu298 is expressed with a 6His tag at the N-terminus.	
Purity:	> 90 % as determined by reducing SDS-PAGE.	
Endotoxin Level:	< 1.0 EU per µg as determined by the LAL method.	
Target Details		
Target:	CDK2	
Alternative Name:	CDK2 (CDK2 Products)	
Background:	Background: Cyclin-dependent kinase 2 (CDK2) belongs to the cyclin-dependent kinase of	
	Ser/Thr protein kinase. CDK2 acts as a catalytic subunit of the cyclin dependent kinase	

complex, whose activity is restricted to the G1-S phage of the cell cycle, it is essential for the

G1/S transition. The kinase activity of CDK2 can be regulated by the association with a cyclin
subunit, its phosphorylation state and CDK inhibitors. The activation of the CDK2/cyclin
complex requires the phosphorylation of Thr160 and the dephosphorylation of Try14 and
Tyr15. The inhibition of CDK2-cyclin complex can also be attributed to association with p27Kip1
and p21Waf1/Cip1. The activation of CDK2 has been shown to be necessary for apoptosis of
quiescent cells, such as neurons, thymocytes and endothelial cells.
Synonym: Cyclin-Dependent Kinase 2, Cell Division Protein Kinase 2, p33 Protein Kinase, CDK2,
CDKN2

Molecular Weight: 36.1 kDa

NCBI Accession: NP\_001789

Pathways: PI3K-Akt Signaling, Cell Division Cycle, Mitotic G1-G1/S Phases, DNA Replication, M Phase, Synthesis of DNA

## **Application Details**

## Handling

Format:	Frozen, Liquid	
Buffer:	Supplied as a 0.2 $\mu$ m filtered solution of 20 mM TrisHCl, 200 mM NaCl, 1 mM DTT, 40 % Glycerol, pH 8.0.	
Storage:	-20 °C	
Storage Comment:	orage Comment: Store at < -20°C, stable for 6 months. Please minimize freeze-thaw cycles.	