

## Basic Information

<b>Product Name</b>	Anti-CDK2 Antibody (Clone#OT11C4)	
<b>Gene Name</b>	CDK2	
<b>Source</b>	Mouse	
<b>Clonality</b>	Monoclonal	
<b>Isotype</b>	IgG2a	
<b>Species Reactivity</b>	human, mouse, rat, monkey	
<b>Tested Application</b>	WB, ICC/IF, FCM	
<b>Contents</b>	PBS (PH 7.3) containing 1% BSA, 50% glycerol and 0.02% sodium azide.	
<b>Immunogen</b>	Full length human recombinant protein of human CDK2 (NP_001789) produced in HEK293T cell.	
<b>Concentration</b>	500 ug/ml	
<b>Purification</b>	Purified from mouse ascites fluids or tissue culture supernatant by affinity chromatography (protein A/G)	
<b>Observed MW</b>	33.7 kDa	
<b>Dilution Ratios</b>	Western blot (WB):	1:500~2000
	Immunocytochemistry/Immunofluorescence (ICC/IF):	1:100
	Flow cytometry (FCM):	1:100

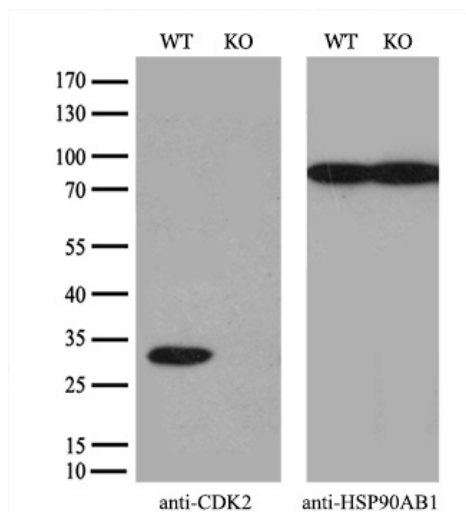
## Storage

Stable for 12 months from date of receipt. Store at -20°C as received.

## Background Information

CDK2, Cyclin-Dependent Kinase2, is also known as P33. The CDK2 protein was highly homologous to p34(CDC2) kinase and more significantly homologous to Xenopus Eg1 kinase, suggesting that CDK2 is the human homolog of Eg1. The CDK2 gene is mapped to 12q13, the same region to which the CDK4 gene maps. Human cyclin A binds independently to 2 kinases, p34(cdc2) or p33. In adenovirus-transformed cells, the viral E1A oncoprotein seems to associate with p33/cyclin A but not with p34(cdc2)/cyclin A. The gene for p33 shares 65% sequence identity with p34(cdc2). P33(cdk2) plays a unique role in cell cycle regulation of vertebrate cells.

## Selected Validation Data



Equivalent amounts of cell lysates (10 ug per lane) of wild-type 293T cells (WT) and CDK2-Knockout 293T cells (KO) were separated by SDS-PAGE and immunoblotted with anti-CDK2 monoclonal antibody M00166-5, (1:500). Then the blotted membrane was stripped and reprobbed with anti-HSP90AB1 antibody ([M01692-2]) as a loading control.