

## Rabbit Anti-CDK3/AP Conjugated antibody

SL1680R-AP

<b>Product Name</b>	Anti-CDK3/AP
<b>Chinese Name</b>	碱性磷酸酶（AP）标记的周期素依赖性激酶 3 抗体
<b>Alias</b>	Cdk 3; Cell division kinase 3; Cell division protein kinase 3; Cyclin dependent kinase 3; p36; Cdk3; CDK3_HUMAN; CDKN3; Cell division protein kinase 3; Cyclin dependent kinase 3; Cyclin-dependent kinase 3; OTTHUMP00000206828; p36.
<b>Research Area</b>	Cell biology Signal transduction Cyclin Kinases and Phosphatases
<b>Immunogen Species</b>	Rabbit
<b>Clonality</b>	Polyclonal
<b>React Species</b>	(predicted:Human,Mouse,Rat,Chicken,Dog,Pig,Cow,Horse,GuineaPig) WB=1000-10000,IHC-P=1:100-500,IHC-F=1:100-500,ELISA=1:500-5000
<b>Applications</b>	not yet tested in other applications. optimal dilutions/concentrations should be determined by the end user.
<b>Molecular weight</b>	34kDa
<b>Form</b>	Lyophilized or Liquid
<b>Concentration</b>	1mg/ml
<b>immunogen</b>	KLH conjugated synthetic peptide derived from human CDK3
<b>Lsotype</b>	IgG
<b>Purification</b>	affinity purified by Protein A
<b>Storage Buffer</b>	1M TBS(pH7.4) with 1% BSA, 3% Proclin300 and 50% Glycerol.
<b>Storage</b>	Store at -20 °C for one year. Avoid repeated freeze/thaw cycles. The lyophilized antibody is stable at room temperature for at least one month and for greater than a year when kept at -20°C. When reconstituted in sterile pH 7.4 1M PBS or diluent of antibody the antibody is stable for at least two weeks at 2-4 °C.
<b>Product Detail</b>	<b>background:</b> This gene encodes a member of the cyclin-dependent protein kinase family. The protein promotes entry into S phase, in part by activating members of the E2F family of transcription factors. The protein also associates with cyclin C and phosphorylates the retinoblastoma 1 protein to promote exit from G0. [provided by RefSeq, Jul 2008]

**Function:**

Serine/threonine-protein kinase that plays a critical role in the control of the eukaryotic cell cycle; involved in G0-G1 and G1-S cell cycle transitions. Interacts with CCNC/cyclin-C during interphase. Phosphorylates histone H1, ATF1, RB1 and CABLES1. ATF1 phosphorylation triggers ATF1 transactivation and transcriptional activities, and promotes cell proliferation and transformation. CDK3/cyclin-C mediated RB1 phosphorylation is required for G0-G1 transition. Promotes G1-S transition probably by contributing to the activation of E2F1, E2F2 and E2F3 in a RB1-independent manner.

**Subunit:**

Interacts with CABLES1 and CABLES2. Interacts with ATF1. Binding to CCNC/cyclin-C promotes RB1 phosphorylation.

**Tissue Specificity:**

Expressed in cancer cell lines and glioblastoma tissue.

**Similarity:**

Belongs to the protein kinase superfamily. CMGC Ser/Thr protein kinase family. CDC2/CDKX subfamily. Contains 1 protein kinase domain.

**Database links:**

[Entrez Gene: 1018](#) Human

[Omid: 123828](#) Human

[SwissProt: Q00526](#) Human

[Unigene: 706766](#) Human

**Important Note:**

This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.