



# Rabbit Anti-Human CDK4 monoclonal antibody, clone TE31-53 (CABT-L768)

This product is for research use only and is not intended for diagnostic use.

## PRODUCT INFORMATION

<b>Target</b>	Cdk4
<b>Immunogen</b>	Recombinant protein
<b>Isotype</b>	IgG
<b>Source/Host</b>	Rabbit
<b>Species Reactivity</b>	Human
<b>Clone</b>	TE31-53
<b>Purification</b>	Protein A purified.
<b>Conjugate</b>	Unconjugated
<b>Applications</b>	WB, ICC/IF, IHC, FC
<b>Molecular Weight</b>	34 kDa
<b>Cellular Localization</b>	Cytoplasm, Nucleus, Membrane.
<b>Positive Control</b>	NIH/3T3, MCF-7, Hela, human gastric carcinoma tissue, human breast carcinoma tissue.
<b>Format</b>	Liquid
<b>Size</b>	100 µl
<b>Buffer</b>	1×TBS (pH7.4), 1% BSA, 40% Glycerol.
<b>Preservative</b>	0.05% Sodium Azide

**Storage**

Store at +4°C after thawing. Aliquot store at -20°C or -80°C. Avoid repeated freeze / thaw cycles.

---

## BACKGROUND

**Introduction**

Cell cycle progression is controlled in part by a family of cyclin proteins and cyclin dependent kinases (Cdk). Cdk proteins work in concert with the cyclins to phosphorylate key substrates involved in each phase of cell cycle progression . Another family of proteins, Cdk inhibitors, also plays a role in regulating the cell cycle by binding to cyclin-Cdk complexes and modulating their activity. Several Cdk proteins have been identified, including Cdk2-Cdk8, PCTAIRE-1-PCTAIRE-3, PITALRE and PITSLRE. Cdk4, in complex with D-type cyclins, is thought to regulate cell growth during the G1 phase of the cell cycle. This association with a D-type cyclin upregulates Cdk4 activity, whereas binding to the Cdk inhibitor p16 downregulates Cdk4 activity. Activation of the Cdk4-cyclin complexes requires phosphorylation on a single threonyl residue of Cdk4, catalyzed by a Cdk-activating protein (CAK).

---

**Keywords**

Cdk 4;cdk4;CDK4 protein;CDK4\_HUMAN;Cell division kinase 4;Cell division protein kinase 4;CMM 3;CMM3;Crk3;Cyclin dependent kinase 4;Cyclin-dependent kinase 4;Melanoma cutaneous malignant 3;MGC14458;p34 cdk4;PSK J3;PSK-J3 antibody

---

## GENE INFORMATION

**Entrez Gene ID**

[1019](#)

---

**UniProt ID**

[A0A024RBB6](#)

---