



# Rabbit Anti-CDK5 monoclonal antibody, clone TS40-12 (CABT-L576)

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

## PRODUCT INFORMATION

<b>Target</b>	Cdk5
<b>Immunogen</b>	Recombinant protein
<b>Isotype</b>	IgG
<b>Source/Host</b>	Rabbit
<b>Species Reactivity</b>	Human, Mouse, Rat
<b>Clone</b>	TS40-12
<b>Purification</b>	Protein A purified.
<b>Conjugate</b>	Unconjugated
<b>Applications</b>	WB, IHC, IP, FC
<b>Molecular Weight</b>	33 kDa
<b>Cellular Localization</b>	Cytoplasm, Nucleus, Cell membrane, Perikaryon, Cell junction
<b>Positive Control</b>	Hela, mouse brain tissue, rat brain 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.

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## BACKGROUND

**Introduction** Cell cycle progression is controlled in part by a family of cyclin proteins and cyclin dependent kinases (Cdks). 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 cell cycle by binding to cyclin-Cdk complexes and modulating their activity. Several Cdk proteins have been identified, including Cdk2-Cdk8, PCTAIRE-1-3, PITALRE and PITSLRE. Cdk5 is thought to be involved in the G1-S transition of the cell cycle and is highly expressed in mature neurons. Activity of Cdk5 increases significantly during neuronal differentiation. Cdk5 has been postulated to be a neurofilament or tau protein kinase, based on its ability to phosphorylate these proteins in vitro.

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**Keywords** Cdk 5;Cdk5;CDK5\_HUMAN;Cell division protein kinase 5;Crk6;Cyclin dependent kinase 5;Cyclin-dependent kinase 5;Protein kinase CDK5 splicing;PSSALRE;Serine threonine protein kinase PSSALRE;Serine/threonine-protein kinase PSSALRE;Tau protein kinase II catalytic subunit;TPKII catalytic subunit antibody

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## GENE INFORMATION

**Entrez Gene ID** [6667](#)

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