

## Cdk5 Monoclonal Antibody

### Description

<b>Product type</b>	Primary Antibody
<b>Code</b>	BT-MCA0331
<b>Host</b>	Mouse
<b>Isotype</b>	IgG
<b>Size</b>	50ul, 100ul
<b>Immunogen</b>	Purified recombinant fragment of human Cdk5 expressed in E. Coli.
<b>Mol wt</b>	N/A
<b>Species reactivity</b>	Human,Rat,Monkey
<b>Clonality</b>	Monoclonal
<b>Recommended application</b>	WB, IHC-p, IF, ICC, FCM, ELISA
<b>Concentration</b>	1 mg/ml
<b>Full name</b>	Cell division protein kinase 5
<b>Synonyms</b>	CDK5; CDKN5; Cyclin-dependent kinase 5; Cell division protein kinase 5; Serine; threonine-protein kinase PSSALRE; Tau protein kinase II catalytic subunit; TPKII catalytic subunit

**This product is for research use only, not for use in human, therapeutic or diagnostic procedure.**

### Background

This gene encodes a proline-directed serine/threonine kinase that is a member of the cyclin-dependent kinase family of proteins. Unlike other members of the family, the protein encoded by this gene does not directly control cell cycle regulation. Instead the protein, which is predominantly expressed at high levels in mammalian postmitotic central nervous system neurons, functions in diverse processes such as synaptic plasticity and neuronal migration through phosphorylation of proteins required for cytoskeletal organization, endocytosis and exocytosis, and apoptosis. In humans, an allelic variant of the gene that results in undetectable levels of the protein has been associated with lethal autosomal recessive lissencephaly-7. Alternative splicing results in multiple transcript variants.

### Recommended Dilution

FC: 1:200 - 1:400

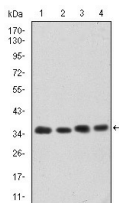
IF: 1:200 - 1:1000

IHC: 1:200 - 1:1000

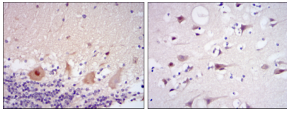
WB: 1:500 - 1:2000

Not yet tested in other applications.

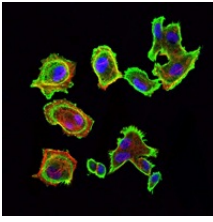
### Images



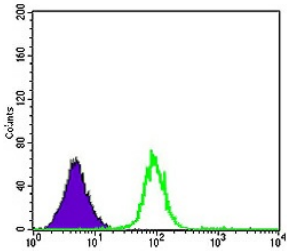
Western Blot analysis using Cdk5 Monoclonal antibody against HeLa (1) K562 (2) PC-12 (3) and Cos7 (4) cell lysate.



Immunohistochemistry analysis of paraffin-embedded cerebellum tissues (left) and brain tissues (right) with DAB staining using Cdk5 Monoclonal antibody.



Immunofluorescence analysis of GC7901 cells using Cdk5 Monoclonal antibody (green). Blue: DRAQ5 fluorescent DNA dye. Red: Actin filaments have been labeled with Alexa Fluor-555 phalloidin.



Flow cytometric analysis of K562 cells using Cdk5 Monoclonal antibody (green) and negative control (purple).

### Storage

-20°C for one year

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