



Cdk5 (phospho Tyr15) Monoclonal Antibody

Catalog No	BYmab-16606
Isotype	IgG
Reactivity	Human;Mouse;Rat;Monkey
Applications	WB
Gene Name	CDK5
Protein Name	Cyclin-dependent kinase 5
Immunogen	The antiserum was produced against synthesized peptide derived from human CDK5 around the phosphorylation site of Tyr15. AA range:1-50
Specificity	Phospho-Cdk5 (Y15) Monoclonal Antibody detects endogenous levels of Cdk5 protein only when phosphorylated at Y15.
Formulation	Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% sodium azide.
Source	Monoclonal, Mouse,IgG
Purification	The antibody was affinity-purified from mouse antiserum by affinity-chromatography using epitope-specific immunogen.
Dilution	WB 1:500-2000
Concentration	1 mg/ml
Concentration Purity	1 mg/ml ≥90%
Purity	≥90%
Purity Storage Stability	≥90% -20°C/1 year CDK5; CDKN5; Cyclin-dependent kinase 5; Cell division protein kinase 5; Serine/threonine-protein kinase PSSALRE; Tau protein kinase II catalytic subunit;
Purity Storage Stability Synonyms	≥90% -20°C/1 year 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

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2]: Expressed in the testis, skeletal muscle, colon, bone marrow and ovary.

Function

catalytic activity:ATP + a protein = ADP + a phosphoprotein.,function:Probably involved in the control of the cell cycle. Interacts with D1 and D3-type G1 cyclins. Can phosphorylate histone H1, tau, MAP2 and NF-H and NF-M. Also interacts with p35 which activates the kinase., similarity: Belongs to the protein kinase superfamily. CMGC Ser/Thr protein kinase family. CDC2/CDKX subfamily., similarity: Contains 1 protein kinase domain., subcellular location: In axonal growth cone with extension to the peripheral

lamellipodia., subunit: Heterodimer of a catalytic subunit and a regulatory subunit (p35). Found in a trimolecular complex with CABLES1 and ABL1. Interacts with

CABLES1 (By similarity). Interacts with AATK.,

Background

cyclin dependent kinase 5(CDK5) Homo sapiens This gene encodes a proline-directed serine/thrèonine 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 expréssed 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. [provided by RefSeq, May 2015],

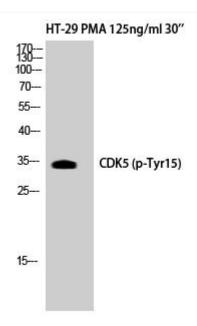
matters needing attention

Avoid repeated freezing and thawing!

Usage suggestions

This product can be used in immunological reaction related experiments. For more information, please consult technical personnel.

Products Images



Western Blot analysis of various cells using Cdk5 (phospho Tyr15) Monoclonal Antibody

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