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CDK5 Mouse mAb(3D1)

Catalog No YP-Ab-04774 Isotype IgG Reactivity Human; Mouse;Rat Applications IHC;WB Gene Name CDK5 CDKN5 Protein Name CDK5 Immunogen Synthesized peptide derived from human CDK5 Specificity This antibody detects endogenous levels of CDK5 at Human, Mouse, Rat Formulation Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.04% sodium azide. Source Monoclonal, Mouse Purification The antibody was affinity-purified from mouse ascites by affinity-chromatography using specific immunogen. Dilution IHC-p1:50-200 ,WB 1:1000-2000 Concentration 1 mg/ml Purity ≥90% Storage Stability -20°C/1 year Synonyms Cyclin-dependent kinase 5 (EC 2.7.11.22) (Cell division protein kinase 1) (Serine/threonine-protein kinase PSSALRE) (Tau protein kinase II catalytic subunit) (TPKII catalytic subunit) Observed Band 33kD Cell Pathway [Isoform 1]: Cytoplasm , Nucleus . Cell membrane ; Peripheral membrane protein, enwither thereins on the peripheral immellipoda (By similarity). Under neurotoxic stress and neuronal injury conditions, CDKSR (p35) is cleaved by calpain to one with extension to the peripheral immellipoda (By		
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Gene Name CDK5 CDKN5 Protein Name CDK5 Immunogen Synthesized peptide derived from human CDK5 Specificity This antibody detects endogenous levels of CDK5 at Human, Mouse,Rat Formulation Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.04% sodium azide. Source Monoclonal, Mouse Purification The antibody was affinity-purified from mouse ascites by affinity-chromatography using specific immunogen. Dilution IHC-p1:50-200 ,WB 1:1000-2000 Concentration 1 mg/ml Purity ≥90% Storage Stability -20°C/1 year Synonyms Cyclin-dependent kinase 5 (EC 2.7.11.22) (Cell division protein kinase 1l catalytic subunit) (TPKII catalytic subunit) (TPKII catalytic subunit) Observed Band 33kD Cell Pathway [Isoform 1]: Cytoplasm . Nucleus . Cell membrane ; Peripheral membrane protein, perikaryon. Cell projection, lamellipodium . Cell projection, growth cone . Cell junction, synapse . In axonal growth cone with extension to the peripheral lamelipodia (By similarity). Under neurotoxic stress and neuronal injury conditions, CDKSR (p35) is cleaved by cappan to generate CDKSR1 (p25) in response to increased intracellular calcium. The elevated level of p25, when in complex with CDKS, leads to its subcellular misallocation as well as its hyperactivation. Colocalizes with CTIND12 in the cell body of neuronal cells, and with CT	Reactivity	Human; Mouse;Rat
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Function	Tissue Specificity	Accumulates in cortical neurons (at protein level) (PubMed:17009320).; [Isoform
	Function	



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Background

cyclin dependent kinase 5(CDK5) Homo sapiens 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.

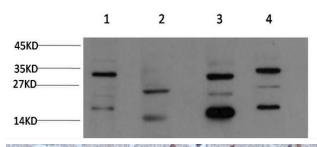
matters needing attention

Avoid repeated freezing and thawing!

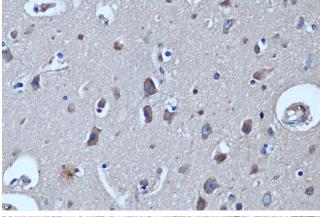
Usage suggestions

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

Products Images



Western blot analysis of1)Hela Cell,2)Jurkat Cell,3)Mouse Brain Tissue, 4)Rat Brain Tissue Lysate using Mouse mAb diluted at 1:2,000.



Western blot analysis of1)Hela Cell,2)Jurkat Cell,3)Mouse Brain Tissue, 4)Rat Brain Tissue Lysate using Mouse mAb diluted at 1:2,000.



Immunohistochemical analysis of paraffin-embedded human Colon cancer. 1, Antibody was diluted at 1:200(4° overnight). 2, Tris-EDTA,pH9.0 was used for antigen retrieval. 3,Secondary antibody was diluted at 1:200(room temperature, 45min).