

Cdk5 rabbit pAb

Cat No.:ES4439

For research use only

Overview

Product Name	Cdk5 rabbit pAb
Host species	Rabbit
Applications	WB;IHC;IF;ELISA
Species Cross-Reactivity	Human; Mouse; Rat
Recommended dilutions	Western Blot: 1/500 - 1/2000.
	Immunohistochemistry: 1/100 - 1/300. ELISA:
	1/5000. Not yet tested in other applications.
Immunogen	The antiserum was produced against synthesized
	peptide derived from human CDK5. AA range:1-50
Specificity	Cdk5 Polyclonal Antibody detects endogenous levels
	of Cdk5 protein.
Formulation	Liquid in PBS containing 50% glycerol, 0.5% BSA and
	0.02% sodium azide.
Storage	Store at -20°C. Avoid repeated freeze-thaw cycles.
Protein Name	Cyclin-dependent kinase 5
Gene Name	CDK5
Cellular localization	[Isoform 1]: Cytoplasm . Nucleus . Cell membrane ;
	Peripheral membrane protein. Perikaryon. Cell
	projection, lamellipodium . Cell projection, growth
	cone . Cell junction, synapse, postsynaptic density .
	Cell junction, synapse . In axonal growth cone with
	extension to the peripheral lamellipodia (By
	similarity). Under neurotoxic stress and neuronal
	injury conditions, CDK5R (p35) is cleaved by calpain
	to generate CDK5R1 (p25) in response to increased
	intracellular calcium. The elevated level of p25,
	when in complex with CDK5, leads to its subcellular
	misallocation as well as its hyperactivation.
	Colocalizes with CTNND2 in the cell body of
	neuronal cells, and with CTNNB1 in the cell-cell
	contacts and plasma membrane of undifferentiated
	and differentiated neuroblastoma cells. Reversibly
	attach



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Purification	The antibody was affinity-purified from rabbit
	antiserum by affinity-chromatography using
a l u	epitope-specific immunogen.
Clonality	Polyclonal
Concentration	1 mg/ml
Observed band	33kD
Human Gene ID	1020
Human Swiss-Prot Number	Q00535
Alternative Names	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
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.
	[provided by RefSeq, May 2015],

Western Blot analysis of HepG2 cells using Cdk5 Polyclonal Antibody diluted at 1:500

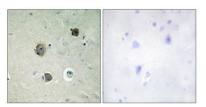


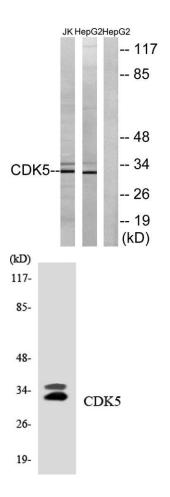
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HepG2



Immunohistochemistry analysis of paraffin-embedded human brain tissue, using CDK5 Antibody. The picture on the right is blocked with the synthesized peptide.





Western blot analysis of lysates from HepG2 and Jurkat cells, using CDK5 Antibody. The lane on the right is blocked with the synthesized peptide.

Western blot analysis of the lysates from HUVECcells using CDK5 antibody.



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