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CDK5R1 Antibody (N-term)

Purified Rabbit Polyclonal Antibody (Pab)
Catalog # AP21452a

Product Information

Application	WB, E
Primary Accession	Q15078
Reactivity	Human, Rat, Mouse
Host	Rabbit
Clonality	polyclonal
Isotype	Rabbit IgG
Clone Names	RB50920
Calculated MW	34060

Additional Information

Gene ID	8851
Other Names	Cyclin-dependent kinase 5 activator 1, CDK5 activator 1, Cyclin-dependent kinase 5 regulatory subunit 1, TPKII regulatory subunit, Cyclin-dependent kinase 5 activator 1, p35, p35, Cyclin-dependent kinase 5 activator 1, p25, p25, Tau protein kinase II 23 kDa subunit, p23, CDK5R1, CDK5R, NCK5A
Target/Specificity	This CDK5R1 antibody is generated from a rabbit immunized with a KLH conjugated synthetic peptide between 30-64 amino acids from the N-terminal region of human CDK5R1.
Dilution	WB~~1:2000 E~~Use at an assay dependent concentration.
Format	Purified polyclonal antibody supplied in PBS with 0.09% (W/V) sodium azide. This antibody is purified through a protein A column, followed by peptide affinity purification.
Storage	Maintain refrigerated at 2-8°C for up to 2 weeks. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.
Precautions	CDK5R1 Antibody (N-term) is for research use only and not for use in diagnostic or therapeutic procedures.

Protein Information

Name	CDK5R1
Synonyms	CDK5R, NCK5A
Function	p35 is a neuron specific activator of CDK5. The complex p35/CDK5 is

	required for neurite outgrowth and cortical lamination. Involved in dendritic spine morphogenesis by mediating the EFNA1-EPHA4 signaling. Activator of TPKII. The complex p35/CDK5 participates in the regulation of the circadian clock by modulating the function of CLOCK protein: phosphorylates CLOCK at 'Thr-451' and 'Thr-461' and regulates the transcriptional activity of the CLOCK-BMAL1 heterodimer in association with altered stability and subcellular distribution.
Cellular Location	[Cyclin-dependent kinase 5 activator 1, p35]: Cell membrane; Lipid-anchor; Cytoplasmic side. Cell projection, neuron projection. Note=In the primary cortical neurons, p35 is present in the peripheries and nerve terminals.
Tissue Location	Brain and neuron specific.

Background

p35 is a neuron specific activator of CDK5. The complex p35/CDK5 is required for neurite outgrowth and cortical lamination. Involved in dendritic spine morphogenesis by mediating the EFNA1-EPHA4 signaling. Activator of TPKII. The complex p35/CDK5 participates in the regulation of the circadian clock by modulating the function of CLOCK protein: phosphorylates CLOCK at 'Thr-451' and 'Thr-461' and regulates the transcriptional activity of the CLOCK-ARNTL/BMAL1 heterodimer in association with altered stability and subcellular distribution.

References

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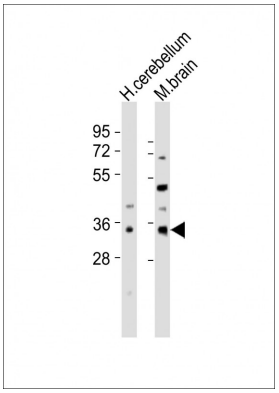
Patrick G.N.,et al.Nature 402:615-622(1999).
Kerokoski P.,et al.Brain Res. Mol. Brain Res. 106:50-56(2002).

Images



All lanes : Anti-CDK5R1 Antibody (N-term) at 1:2000 dilution Lane 1: human cerebellum lysates Lane 2: mouse brain lysates Lysates/proteins at 20 µg per lane. Secondary Goat Anti-Rabbit IgG, (H+L), Peroxidase conjugated at 1/10000 dilution Predicted band size : 34 kDa Blocking/Dilution buffer: 5% NFDM/TBST.