

产品名称: p35 Rabbit Polyclonal Antibody
产品货号: AP Rab15615



产品概述 (Summary)

产品名称 (Production Name)	p35 Rabbit Polyclonal Antibody
描述 (Description)	Rabbit polyclonal Antibody
宿主 (Host)	Rabbit
应用 (Application)	WB,IHC,ICC/IF,ELISA
种属反应性 (Reactivity)	Human,Mouse,Rat

产品性能 (Performance)

偶联物 (Conjugation)	Unconjugated
修饰 (Modification)	Unmodified
同种型 (Isotype)	IgG
克隆 (Clonality)	Polyclonal
形式 (Form)	Liquid
存放说明 (Storage)	Store at 4°C short term. Aliquot and store at -20°C long term. Avoid freeze/thaw cycles.
储存溶液 (Buffer)	Liquid in PBS containing 50% glycerol, 0.5% protective protein and 0.02% New type preservative N.
纯化方式 (Purification)	Affinity purification

免疫原信息 (Immunogen)

基因名 (Gene Name)	CDK5R1
别名 (Alternative Names)	CDK5R1; CDK5R; NCK5A; Cyclin-dependent kinase 5 activator 1; CDK5 activator 1; Cyclin-dependent kinase 5 regulatory subunit 1; TPKII regulatory subunit
基因 ID (Gene ID)	8851.0
蛋白 ID (SwissProt ID)	Q15078.The antiserum was produced against synthesized peptide derived from human CDK5R1. AA range:11-60

产品应用 (Application)

稀释比 (Dilution Ratio)	WB 1:500-1:2000,IHC 1:100-1:300,ICC/IF 1:200-1:1000,ELISA 1:10000-1:20000
蛋白分子量 (Molecular Weight)	38kDa

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研究背景 (Background)

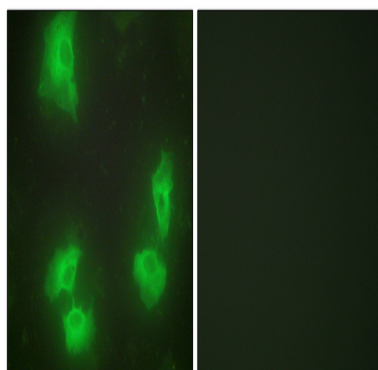
The protein encoded by this gene (p35) is a neuron-specific activator of cyclin-dependent kinase 5 (CDK5); the activation of CDK5 is required for proper development of the central nervous system. The p35 form of this protein is proteolytically cleaved by calpain, generating a p25 form. The cleavage of p35 into p25 results in relocalization of the protein from the cell periphery to nuclear and perinuclear regions. P25 deregulates CDK5 activity by prolonging its activation and changing its cellular location. The p25 form accumulates in the brain neurons of patients with Alzheimer's disease. This accumulation correlates with an increase in CDK5 kinase activity, and may lead to aberrantly phosphorylated forms of the microtubule-associated protein tau, which contributes to Alzheimer's disease. [provided by RefSeq, Jul 2008],disease: Cleavage of p35 to p25 may be involved in the pathogenesis of Alzheimer disease. The p25 form accumulates in neurons in the brain of patients with Alzheimer disease, but not in normal brain. This accumulation correlates with an increase in CDK5 kinase activity. Application of amyloid beta peptide A-beta(1-42) induced the conversion of p35 to p25 in primary cortical neurons. Expression of the p25/Cdk5 complex in cultured primary neurons induces cytoskeletal disruption, morphological degeneration and apoptosis.,function: p35 is a neuron specific activator of CDK5. The complex p35/CDK5 is required for neurite outgrowth and cortical lamination. Activator of TPKII.,PTM: Probably myristoylated. The Gly-2-Ala mutant is absent of the cell periphery, suggesting that a proper myristoylation signal is essential for the proper distribution of p35.,PTM: The p35 form is proteolytically cleaved by calpain, giving rise to the p25 form. P35 has a 5 to 10 fold shorter half-life compared to p25. The conversion results in deregulation of the CDK5 kinase: p25/CDK5 kinase displays an increased and altered tau phosphorylation in comparison to the p35/CDK5 kinase in vivo.,similarity: Belongs to the cyclin-dependent kinase 5 activator family.,subcellular location: In the primary cortical neurons, p35 is present in the peripheries and nerve terminals.,subcellular location: The conversion of p35 to p25 relocalizes the protein from the cell periphery to the cytoplasm, in nuclear and perinuclear regions. In the primary cortical neurons, p25 is primarily concentrated in the cell soma and is largely absent from neurites.,subunit: Heterodimer composed of CDK5 and CDK5R (p25) and macromolecular complex composed of at least CDK5, CDK5R (p35) and CDK5RAP1 or CDK5RAP2 or CDK5RAP3. Only the heterodimer shows kinase activity (By similarity). Interacts with RASGRF2.,tissue specificity: Brain and neuron specific.,

研究领域 (Research Area)

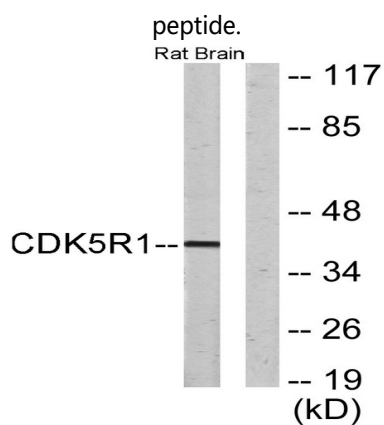
Alzheimer's disease;

图片 (Image Data)

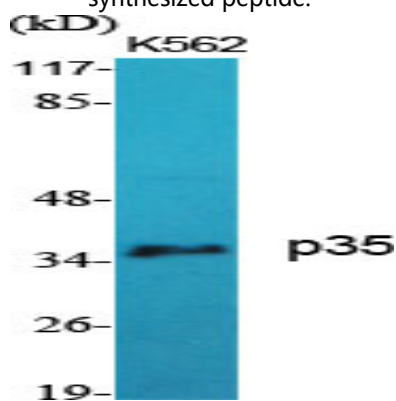
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Immunofluorescence analysis of HeLa cells, using CDK5R1 Antibody. The picture on the right is blocked with the synthesized

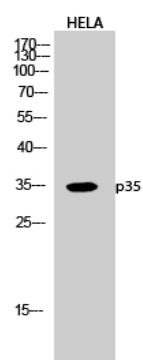


Western blot analysis of lysates from rat brain cells, using CDK5R1 Antibody. The lane on the right is blocked with the synthesized peptide.



Western Blot analysis of various cells using p35 Polyclonal Antibody diluted at 1: 1000

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Western Blot analysis of HELA cells using p35 Polyclonal Antibody diluted at 1: 1000

注意事项 (Note)

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