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Datasheet for ABIN1537017
anti-CDK5R1 antibody (C-Term)

2 Images

Overview

Quantity:	400 µL
Target:	CDK5R1
Binding Specificity:	AA 272-301, C-Term
Reactivity:	Human
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This CDK5R1 antibody is un-conjugated
Application:	Western Blotting (WB), Immunohistochemistry (Paraffin-embedded Sections) (IHC (p))

Product Details

Immunogen:	This CDK5R1(p35) antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 272-301 amino acids from the C-terminal region of human CDK5R1(p35).
Clone:	RB36667
Isotype:	Ig Fraction
Predicted Reactivity:	B, M, Rat
Purification:	This antibody is purified through a protein A column, followed by peptide affinity purification.

Target Details

Target:	CDK5R1
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Target Details

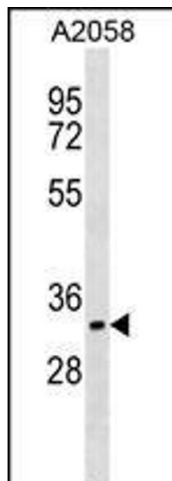
Alternative Name:	CDK5R1(p35) (CDK5R1 Products)
Target Type:	Viral Protein
Background:	<p>P35 is a neuron-specific activator of cyclin-dependent kinase 5 (CDK5), the activation of CDK5 is required for proper development of the central nervous system. The p35 form of this protein is proteolytically cleaved 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.</p>
Molecular Weight:	34060
Gene ID:	8851
NCBI Accession:	NP_003876
UniProt:	Q15078
Pathways:	Stem Cell Maintenance , Regulation of Cell Size , Positive Regulation of Endopeptidase Activity

Application Details

Application Notes:	WB: 1:1000. IHC-P: 1:10~50
Restrictions:	For Research Use only

Handling

Format:	Liquid
Buffer:	Purified polyclonal antibody supplied in PBS with 0.09 % (W/V) sodium azide.
Preservative:	Sodium azide
Precaution of Use:	This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.
Storage:	4 °C, -20 °C
Storage Comment:	Maintain refrigerated at 2-8 °C for up to 6 months. For long term storage store at -20 °C in small aliquots to prevent freeze-thaw cycles.



Immunohistochemistry (Paraffin-embedded Sections)

Image 1. Formalin-fixed and paraffin-embedded human brain tissue reacted with CDK5R1(p35) Antibody (C-term) (ABIN1537017 and ABIN2841875), which was peroxidase-conjugated to the secondary antibody, followed by DAB staining. This data demonstrates the use of this antibody for immunohistochemistry, clinical relevance has not been evaluated.

Western Blotting

Image 2. CDK5R1 Antibody (C-term) (ABIN1537017 and ABIN2841875) western blot analysis in cell line lysates (35 μ g/lane). This demonstrates the CDK5R1 antibody detected the CDK5R1 protein (arrow).