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Datasheet for ABIN7266592
anti-CDK5R1 antibody (AA 99-307)

2 Images

Overview

Quantity:	100 µL
Target:	CDK5R1
Binding Specificity:	AA 99-307
Reactivity:	Human
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This CDK5R1 antibody is un-conjugated
Application:	Western Blotting (WB), Immunofluorescence (IF)

Product Details

Purpose:	CDK5R1 Rabbit pAb
Immunogen:	Recombinant fusion protein containing a sequence corresponding to amino acids 99-307 of human CDK5R1 (NP_003876.1).
Sequence:	AQPPPAQPPA PPASQLSGSQ TGGSSSVKKA PHPAVTSAGT PKRVIVQAST SELLRCLGEF LCRRCYRLKH LSPTDPVLWL RSVDRSLLLQ GWQDQGFITP ANVFLYMLC RDVISSEVGS DHELQAVLLT CLYLSYSYMG NEISYPLKPF LVESCKEAFW DRCLSVINLM SSKMLQINAD PHYFTQVFSD LKNESGQEDK KRLLLGLDR
Isotype:	IgG
Cross-Reactivity:	Human, Mouse, Rat
Characteristics:	Polyclonal Antibodies

Product Details

Purification: Affinity purification

Target Details

Target: CDK5R1

Alternative Name: CDK5R1 ([CDK5R1 Products](#))

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.,CDK5R1,CDK5P35,CDK5R,NCK5A,p23,p25,p35,p35nck5a,Epigenetics & Nuclear Signaling,Signal Transduction,Kinase,Serine/threonine kinases,Cell Biology & Developmental Biology,Apoptosis,Cell Cycle,Neuroscience,Neurodegenerative Diseases,Amyloid Plaque and Neurofibrillary Tangle Formation in Alzheimer's Disease,CDK5R1

Molecular Weight: 34kDa

Gene ID: 8851

UniProt: [Q15078](#)

Pathways: [Stem Cell Maintenance](#), [Regulation of Cell Size](#), [Positive Regulation of Endopeptidase Activity](#)

Application Details

Application Notes: WB,1:500 - 1:2000,IF,1:50 - 1:200

Restrictions: For Research Use only

Handling

Format: Liquid

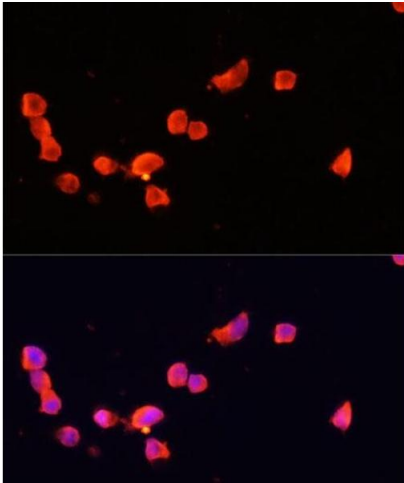
Buffer: PBS with 0.02 % sodium azide,50 % glycerol, pH 7.3.

Preservative: Sodium azide

Handling

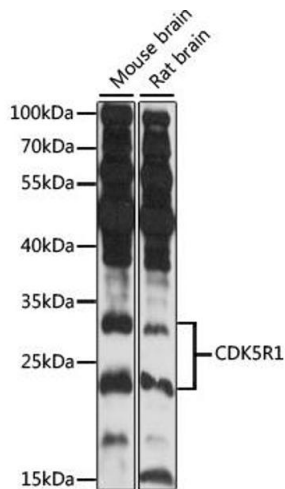
Precaution of Use:	This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.
Storage:	-20 °C
Storage Comment:	Store at -20°C. Avoid freeze / thaw cycles.

Images



Immunofluorescence

Image 1. Immunofluorescence analysis of SH-SY5Y cells using CDK5R1 antibody (ABIN7266592) at dilution of 1:100. Blue: DAPI for nuclear staining.



Western Blotting

Image 2. Western blot analysis of extracts of various cell lines, using CDK5R1 antibody (ABIN7266592) at 1:3000 dilution. Secondary antibody: HRP Goat Anti-Rabbit IgG (H+L) (ABIN1684268 and ABIN3020597) at 1:10000 dilution. Lysates/proteins: 25 µg per lane. Blocking buffer: 3 % nonfat dry milk in TBST. Detection: ECL Basic Kit (RM00020). Exposure time: 30s.