

CDK5R1 rabbit monoclonal antibody

Catalog # H00008851-K Size 100 ug x up to 3

Specification

Product Description	Rabbit monoclonal antibody raised against a human CDK5R1 peptide using ARM Technology.
Immunogen	A synthetic peptide of human CDK5R1 is used for rabbit immunization. Customer or Abnova will decide on the preferred peptide sequence.
Host	Rabbit
Library Construction	Non-fusion antibody library from rabbit spleen (ARM Technology).
Expression	Overexpression vector and transfection into 293H cell line.
Reactivity	Human
Purification	Protein A
Isotype	IgG
Quality Control Testing	Antibody reactive against human CDK5R1 peptide by ELISA and mammalian transfected lysate by Western Blot.
Storage Buffer	In 1x PBS, pH 7.4
Storage Instruction	Store at -20°C or lower. Aliquot to avoid repeated freezing and thawing.
Deliverable	Up to three rabbit IgG clones of 100 ug each will be delivered to customer.
Note	1. Customer may provide cell or tissue lysate for antibody screening. 2. Rabbit monoclonal antibody generated by ARM technology is amenable to antibody engineering including F(ab) ₂ , IgG, scFv and different Fc and non-Fc conjugates per customer request.

Applications

- Western Blot (Transfected lysate)

[Protocol Download](#)

- ELISA

Gene Info — CDK5R1

Entrez GeneID	8851
GeneBank Accession#	CDK5R1
Gene Name	CDK5R1
Gene Alias	CDK5P35, CDK5R, MGC33831, NCK5A, p23, p25, p35, p35nck5a
Gene Description	cyclin-dependent kinase 5, regulatory subunit 1 (p35)
Omim ID	603460
Gene Ontology	Hyperlink
Gene Summary	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]
Other Designations	CDK5 activator 1 TPKII regulatory subunit cyclin-dependent kinase 5 activator 1 cyclin-dependent kinase 5, regulatory subunit 1 neuronal CDK5 activator regulatory partner for CDK5 kinase tau protein kinase II 23kDa subunit

Disease

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