



Rabbit Anti-CDK5RAP1 antibody

SL9075R

Product Name:	CDK5RAP1
Chinese Name:	CDK5激活Binding protein1抗体
Alias:	CDK5 activator binding protein C42 like; CDK5 regulatory subunit associated protein 1; CDK5RAP1.3; CDK5RAP1.4; CGI 05; HSPC167; C20orf34 antibody C42; CDK5 activator binding protein C42; CK5P1 HUMAN.
Organism Species:	Rabbit
Clonality:	Polyclonal
React Species:	Human,Mouse,Rat,Chicken,Dog,Pig,Cow,Horse,Sheep,
Applications:	WB=1:500-2000ELISA=1:500-1000IHC-P=1:400-800IHC-F=1:400-800IF=1:50-200 (Paraffin sections need antigen repair) not yet tested in other applications. optimal dilutions/concentrations should be determined by the end user.
Molecular weight:	68kDa
Cellular localization:	cytoplasmic
Form:	Lyophilized or Liquid
Concentration:	1mg/ml
immunogen:	KLH conjugated synthetic peptide derived from human CDK5RAP1:301-400/601
Lsotype:	IgG
Purification:	affinity purified by Protein A
Storage Buffer:	0.01M TBS(pH7.4) with 1% BSA, 0.03% Proclin300 and 50% Glycerol.
Storage:	Store at -20 °C for one year. Avoid repeated freeze/thaw cycles. The lyophilized antibody is stable at room temperature for at least one month and for greater than a year when kept at -20°C. When reconstituted in sterile pH 7.4 0.01M PBS or diluent of antibody the antibody is stable for at least two weeks at 2-4 °C.
PubMed:	PubMed
Product Detail:	Cyclin dependent kinase 5 (Cdk5) is a key regulator of cell cycle progression in neuronal differentiation that physically associates with and is activated by the neuron-specific protein p35. CDK5RAP1 (Cdk5 regulatory subunit-associated protein 1), also known as Cdk5 activator-binding protein C42, is a 601 amino acid protein that specifically inhibits Cdk5 activation by p35 through formation of a dimer that inhibits

kinase activity. CDK5RAP1 contains one TRAM domain, which is thought to bind tRNA and deliver the RNA-modifying enzymatic domain to its target. There are 4 named isoforms of CDK5RAP1 that are produced as a result of alternative splicing events and are expressed at high levels in heart and skeletal muscle.

Function:

Specifically inhibits CDK5 activation by CDK5R1.

Subunit:

Interacts with CDK5R1 (p35 form). CDK5RAP1, CDK5RAP2 and CDK5RAP3 show competitive binding to CDK5R1. Forms a complex with CDK5R1 and CDK5.

Tissue Specificity:

Widely expressed. Expressed in heart, brain, placenta, lung, liver, skeletal muscle, kidney and pancreas.

Similarity:

Belongs to the methylthiotransferase family. MiaB subfamily.

Contains 1 MTTase N-terminal domain.

Contains 1 TRAM domain.

SWISS:

Q96SZ6

Gene ID:

51654

Database links:

[Entrez Gene: 51654](#) Human

[Entrez Gene: 66971](#) Mouse

[Entrez Gene: 252827](#) Rat

[Omim: 608200](#) Human

[SwissProt: Q96SZ6](#) Human

[SwissProt: Q8BTW8](#) Mouse

[SwissProt: Q9JLH6](#) Rat

[Unigene: 435952](#) Human

[Unigene: 289427](#) Mouse

[Unigene: 203271](#) Rat

Important Note:

This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.

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