

CDK5 Activator-binding C42 Polyclonal Antibody
Catalog # AP69019**Specification****CDK5 Activator-binding C42 Polyclonal Antibody - Product Information**

Application	IHC-P
Primary Accession	Q96S76
Reactivity	Human
Host	Rabbit
Clonality	Polyclonal

CDK5 Activator-binding C42 Polyclonal Antibody - Additional Information**Gene ID** 51654**Other Names**

CDK5RAP1; C20orf34; CGI-05; HSPC167; CDK5 regulatory subunit-associated protein 1; CDK5 activator-binding protein C42

Dilution

IHC-P~N/A

Format

Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.09% (W/V) sodium azide.

Storage Conditions

-20°C

CDK5 Activator-binding C42 Polyclonal Antibody - Protein Information**Name** CDK5RAP1 ([HGNC:15880](#))**Synonyms** C20orf34**Function**

Methylthiotransferase that catalyzes the conversion of N6- (dimethylallyl)adenosine (i(6)A) to 2-methylthio-N6- (dimethylallyl)adenosine (ms(2)i(6)A) at position 37 (adjacent to the 3'-end of the anticodon) of four mitochondrial DNA-encoded tRNAs (Ser(UCN), Phe, Tyr and Trp) (PubMed:[22422838](http://www.uniprot.org/citations/22422838), PubMed:[25738458](http://www.uniprot.org/citations/25738458), PubMed:[28981754](http://www.uniprot.org/citations/28981754)). Essential for efficient and highly accurate protein translation by the ribosome (PubMed:[22422838](http://www.uniprot.org/citations/22422838), PubMed:[25738458](http://www.uniprot.org/citations/25738458), PubMed:[28981754](http://www.uniprot.org/citations/28981754)). Specifically inhibits CDK5 activation by CDK5R1 (PubMed:[11882646](http://www.uniprot.org/citations/11882646)). Essential for efficient mitochondrial protein synthesis and respiratory chain; shows pathological consequences

in mitochondrial disease (PubMed:25738458).

Cellular Location

Mitochondrion.

Tissue Location

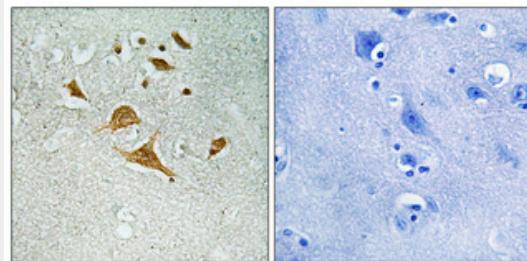
Expressed in heart, brain, placenta, lung, liver, skeletal muscle, kidney and pancreas (PubMed:10721722). Expressed in neurons of central nervous tissue (PubMed:10721722, PubMed:11882646) [Isoform 6]: High expression in placenta and lung.

CDK5 Activator-binding C42 Polyclonal Antibody - Protocols

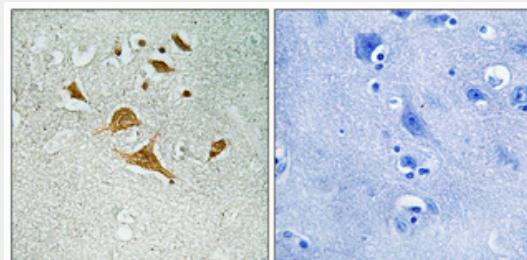
Provided below are standard protocols that you may find useful for product applications.

- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

CDK5 Activator-binding C42 Polyclonal Antibody - Images



Immunohistochemical analysis of paraffin-embedded Human brain. Antibody was diluted at 1:100(4°,overnight). High-pressure and temperature Tris-EDTA,pH8.0 was used for antigen retrieval. Negetive contrl (right) obtained from antibody was pre-absorbed by immunogen peptide.



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CDK5 Activator-binding C42 Polyclonal Antibody - Background

Specifically inhibits CDK5 activation by CDK5R1.