

## CDK5RAP1 Antibody (C-term) Blocking Peptide Synthetic peptide Catalog # BP9034b

## Specification

# CDK5RAP1 Antibody (C-term) Blocking Peptide - Product Information

Primary Accession

### <u>Q96SZ6</u>

# CDK5RAP1 Antibody (C-term) Blocking Peptide - Additional Information

Gene ID 51654

**Other Names** 

CDK5 regulatory subunit-associated protein 1, CDK5 activator-binding protein C42, CDK5RAP1, C20orf34

### Target/Specificity

The synthetic peptide sequence used to generate the antibody <a href=/products/AP9034b>AP9034b</a> was selected from the C-term region of human CDK5RAP1. A 10 to 100 fold molar excess to antibody is recommended. Precise conditions should be optimized for a particular assay.

Format

Peptides are lyophilized in a solid powder format. Peptides can be reconstituted in solution using the appropriate buffer as needed.

#### **Storage** Maintain refrigerated at 2-8°C for up to 6 months. For long term storage store at -20°C.

**Precautions** This product is for research use only. Not for use in diagnostic or therapeutic procedures.

# CDK5RAP1 Antibody (C-term) Blocking Peptide - 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:<a href="http://www.uniprot.org/citations/22422838" target="\_blank">22422838</a>, PubMed:<a href="http://www.uniprot.org/citations/25738458" target="\_blank">25738458</a>, PubMed:<a href="http://www.uniprot.org/citations/25738458" target="\_blank">28981754</a>). Essential for efficient and highly accurate protein translation by the ribosome (PubMed:<a href="http://www.uniprot.org/citations/28981754" target="\_blank">22422838</a>, PubMed:<a href="http://www.uniprot.org/citations/28981754" target="\_blank">28981754</a>). Essential for efficient and highly accurate protein translation by the ribosome (PubMed:<a href="http://www.uniprot.org/citations/22422838" target="\_blank">22422838</a>, PubMed:<a href="http://www.uniprot.org/citations/28981754" target="\_blank">22422838</a>, PubMed:<a href="http://www.uniprot.org/citations/28981754" target="\_blank">22422838</a>, PubMed:<a href="http://www.uniprot.org/citations/22422838" target="\_blank">22422838</a>, PubMed:<a href="http://www.uniprot.org/citations/22422838" target="\_blank">22422838</a>, PubMed:<a href="http://www.uniprot.org/citations/22422838" target="\_blank">22422838</a>, PubMed:<a href="http://www.uniprot.org/citations/25738458" target="\_blank">22422838</a>, PubMed:<a href="http://www.uniprot.org/citations/25738458" target="\_blank">22422838</a>, PubMed:<a href="http://www.uniprot.org/citations/25738458" target="\_blank">22422838</a>, PubMed:<a href="http://www.uniprot.org/citations/25738458" target="\_blank">22738458</a>, PubMed:<a href="http://www.uniprot.org/citations/25738458" target="\_blank">22738458</a>, PubMed:<a href="http://www.uniprot.org/citations/25738458" target="\_blank">22738458</a>, PubMed:<a href="http://www.uniprot.org/citations/25738458" target="\_blank">25738458</a>, Pub



href="http://www.uniprot.org/citations/28981754" target="\_blank">28981754</a>). Specifically inhibits CDK5 activation by CDK5R1 (PubMed:<a

href="http://www.uniprot.org/citations/11882646" target="\_blank">11882646</a>). Essential for efficient mitochondrial protein synthesis and respiratory chain; shows pathological consequences in mitochondrial disease (PubMed:<a href="http://www.uniprot.org/citations/25738458" target="\_blank">25738458" target="\_blank">25738458</a>).

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.

# CDK5RAP1 Antibody (C-term) Blocking Peptide - Protocols

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

<u>Blocking Peptides</u>

CDK5RAP1 Antibody (C-term) Blocking Peptide - Images

# CDK5RAP1 Antibody (C-term) Blocking Peptide - Background

Specifically inhibits CDK5 activation by CDK5R1.

# CDK5RAP1 Antibody (C-term) Blocking Peptide - References

Ching Y.-P., et.al., J. Biol. Chem. 277:15237-15240(2002).