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ADAT3 Antibody (N-term) Blocking Peptide

Synthetic peptide
Catalog # BP17369a

Specification

ADAT3 Antibody (N-term) Blocking Peptide - Product Information

Primary Accession Q96EY9

ADAT3 Antibody (N-term) Blocking Peptide - Additional Information

Gene ID 113179

Other Names
Probable inactive tRNA-specific adenosine deaminase-like protein 3, tRNA-specific adenosine-34 deaminase subunit ADAT3, ADAT3, TAD3

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.

ADAT3 Antibody (N-term) Blocking Peptide - Protein Information

Name ADAT3

Synonyms TAD3

Function
Non-catalytic subunit of the tRNA-specific adenosine-34 deaminase complex, composed of the ADAT2 catalytic subunit and the ADAT3 regulatory subunit, which deaminates adenosine-34 (the first, also called wobble position of the anticodon) to inosine in many tRNAs. Inosine-34 allows the decoding of 3 different nucleotides at the third position of mRNA codons, as inosine is able to pair with U, C, and A. Required for binding of the ADAT2-ADAT3 complex to tRNA through its N-terminus, which rotates with respect to the catalytic domain of the complex, formed by ADAT2 and the ADAT3 C-terminal domain, to position the tRNA anticodon stem-loop correctly in the ADAT2 active site. The ADAT2-ADAT3 complex is required for radial migration of projection neurons in the developing brain cortex, and the catalytic activity of the complex is necessary for this function.

Cellular Location
Nucleus. Cytoplasm. Note=The ADAT2-ADAT3 complex shows a diffuse expression pattern in both the cytoplasm and the nucleus {ECO:0000250|UniProtKB:Q6PAT0}

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ADAT3 Antibody (N-term) Blocking Peptide - Protocols

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

- Blocking Peptides

ADAT3 Antibody (N-term) Blocking Peptide - Images

ADAT3 Antibody (N-term) Blocking Peptide - Background

ADAT3 may be involved in deamination of adenosine-34 to inosine in many tRNAs as a regulatory subunit (Potential).

ADAT3 Antibody (N-term) Blocking Peptide - References

Matsuoka, S., et al. Science 316(5828):1160-1166(2007)Schaub, M., et al. Biochimie 84(8):791-803(2002)