10320 Camino Santa Fe, Suite G
San Diego, CA 92121
Tel: 858.875.1900 Fax: 858.875.1999

ADAT3 antibody - C-terminal region

Rabbit Polyclonal Antibody
Catalog # AI14824

Product Information

Application	WB
Primary Accession	Q96EY9
Other Accession	NM_138422, NP_612431
Reactivity	Human
Predicted	Human
Host	Rabbit
Clonality	Polyclonal
Calculated MW	39844

Additional Information

Gene ID	113179
Alias Symbol	FWP005, MST121, MSTP121, S863-5, TAD3
Other Names	Probable inactive tRNA-specific adenosine deaminase-like protein 3, tRNA-specific adenosine-34 deaminase subunit ADAT3, ADAT3, TAD3
Format	Liquid. Purified antibody supplied in 1x PBS buffer with 0.09% (w/v) sodium azide and 2% sucrose.
Reconstitution & Storage	Add 50 ul of distilled water. Final anti-ADAT3 antibody concentration is 1 mg/ml in PBS buffer with 2% sucrose. For longer periods of storage, store at 20°C. Avoid repeat freeze-thaw cycles.
Precautions	ADAT3 antibody - C-terminal region is for research use only and not for use in diagnostic or therapeutic procedures.

Protein Information

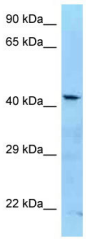
Name	ADAT3
Synonyms	TAD3
Function	Non-catalytic subunit of the tRNA-specific adenosine-34 deaminase complex, composed of the ADAT2 catalytic subunit and the ADAT3 regulatory subunit, which deaminates adenosine-34 (the first, also called wobble position of the anticodon) to inosine in many tRNAs. Inosine-34 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}

References

Gauci S.,et al.Anal. Chem. 81:4493-4501(2009).
Burkard T.R.,et al.BMC Syst. Biol. 5:17-17(2011).
Sjoeblom T.,et al.Science 314:268-274(2006).
Alazami A.M.,et al.J. Med. Genet. 50:425-430(2013).

Images



WB Suggested Anti-ADAT3 Antibody Titration: 1.0 µg/ml
Positive Control: Jurkat Whole Cell

Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.