ATAT1 Antibody – Rabbit Polyclonal

PRODUCT OVERVIEW

Product Name	ATAT1, Polyclonal Antibody
Full Product Name	ATAT1 Antibody, Biotin conjugated
Product Gene Name	anti-ATAT1 antibody
Product Synonym Names	Alpha-tubulin N-acetyltransferase 1; Acetyltransferase mec-17 homolog; ATAT1
Clonality	Polyclonal
Isotype	IgG
Host	Rabbit
Species Reactivity	Human
Form/Format	Liquid
Purity/Purification	>95%, Protein G purified
Preparation and Storage	Upon receipt, store at -20 degree C or -80 degree C. Avoid repeated freeze.
Matching Pairs	Unconjugated Antibody: ATAT1 (MBS7107311) Biotin Conjugated Antibody: ATAT1 (MBS7107314)
Molecular Weight	33,990 Da
OMIM	AB075512 mRNA
3D Structure	ModBase 3D Structure for Q5SQI0
Immunogen	Recombinant Human Alpha-tubulin N-acetyltransferase 1 protein (194-238AA)
Conjugation	Biotin
Buffer	Preservative: 0.03% Proclin 300 Constituents: 50% Glycerol, 0.01M PBS, pH 7.4
Product Categories/Family for anti-ATAT1 antibody	Cell Biology
ISO Certification	Manufactured in an ISO 9001:2015 Certified Laboratory.
Applications Tested/Suitable for anti-ATAT1 antibody	ELISA (EIA)
Related Product Information for anti-ATAT1 antibody	Specifically acetylates 'Lys-40' in alpha-tubulin on the lumenal side of microtubules. Promotes microtubule destabilization and accelerates microtubule dynamics; this activity may be independent of acetylation activity. Acetylates alpha-tubulin with a slow enzymatic rate, due to a catalytic site that is not optimized for acetyl transfer. Enters the microtubule through each end and diffuses quickly throughout the lumen of microtubules. Acetylates only long/old microtubules because of its slow acetylation rate since it does not have time to act on dynamically unstable microtubules before the enzyme is released. Required for normal sperm flagellar function. Promotes directional cell locomotion and chemotaxis, through AP2A2-dependent acetylation of alpha-tubulin at clathrin-coated pits that are concentrated at the leading edge of migrating cells. May facilitate primary cilium assembly.
Other Notes	Small volumes of anti-ATAT1 antibody vial(s) may occasionally become entrapped in the seal of the product vial during shipment and storage. If necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the container`s cap. Certain products may require to ship with dry ice and additional dry ice fee may apply.

Searchable Terms for ATAT1 purchase	MBS7107314 is an antibody targeting ATAT1. Also known as ATAT1 Antibody, Biotin conjugated. Reactive in Human. Host: Rabbit.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for ATAT1. It may not necessarily be applicable to this product.

NCBI GI #	72534730
NCBI GeneID	79969
NCBI Accession #	NP_001026892.1
UniProt Primary Accession #	Q5SQI0
UniProt Secondary Accession #	Q3LIB0; Q5JP39; Q5JP40; Q5JP42; Q5SQI1; Q5SU03; Q86X42; Q8NDK9; Q9BRS1; Q9H8X5; A2AB28
UniProt Related Accession #	Q5SQI0
GenBank Nucleotide #	NM_001031722.3
NCBI Official Full Name	alpha-tubulin N-acetyltransferase 1 isoform 1
NCBI Official Synonym Full Names	alpha tubulin acetyltransferase 1
NCBI Official Symbol	ATAT1
NCBI Official Synonym Symbols	TAT; MEC17; C6orf134; Nbla00487; alpha-TAT; alpha-TAT1
UniProt Protein Name	Alpha-tubulin N-acetyltransferase 1
UniProt Synonym Protein Names	Acetyltransferase mec-17 homolog
UniProt Gene Name	ATAT1
UniProt Synonym Gene Names	Alpha-TAT; Alpha-TAT1; TAT
NCBI Protein Information	alpha-tubulin N-acetyltransferase 1
NCBI Summary for ATAT1	This gene encodes a protein that localizes to clathrin-coated pits, where it acetylates alpha tubulin on lysine 40. This process may be important in microtubule growth, for instance during chemotaxis and the formation of cilium. Alternative splicing results in multiple transcript variants. [provided by RefSeq, Jan 2016]
Research Articles on ATAT1	**1.** Depletion of the tubulin acetyltransferase TAT1 led to a significant increase in the frequency of microtubule breakage.
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