

Atat1 Antibody - middle region

Rabbit Polyclonal Antibody

Catalog # AI12132

Product Information

Application	WB
Primary Accession	Q6MG11
Other Accession	NM_212498 , NP_997663
Reactivity	Human, Mouse, Rat, Rabbit, Dog, Guinea Pig, Horse, Bovine
Predicted	Human, Mouse, Rat, Rabbit, Pig, Dog, Guinea Pig, Horse, Bovine
Host	Rabbit
Clonality	Polyclonal
Calculated MW	47327

Additional Information

Gene ID	361789
Alias Symbol	3110080J08Rik, FLJ13158 Mec17 TAT
Other Names	Alpha-tubulin N-acetyltransferase 1 {ECO:0000255 HAMAP-Rule:MF_03130}, Alpha-TAT {ECO:0000255 HAMAP-Rule:MF_03130}, Alpha-TAT1 {ECO:0000255 HAMAP-Rule:MF_03130}, TAT {ECO:0000255 HAMAP-Rule:MF_03130}, 2.3.1.108 {ECO:0000255 HAMAP-Rule:MF_03130}, Acetyltransferase mec-17 homolog {ECO:0000255 HAMAP-Rule:MF_03130}, Atat1, Mec17
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-Atat1 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	Atat1 Antibody - middle region is for research use only and not for use in diagnostic or therapeutic procedures.

Protein Information

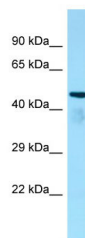
Name	Atat1 {ECO:0000255 HAMAP-Rule:MF_03130}
Synonyms	Mec17
Function	Specifically acetylates 'Lys-40' in alpha-tubulin on the luminal side of microtubules. Promotes microtubule destabilization and accelerates microtubule dynamics; this activity may be independent of acetylation activity. Acetylates alpha-tubulin 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.

Cellular Location

Cytoplasm {ECO:0000255 | HAMAP-Rule:MF_03130}. Membrane, clathrin-coated pit {ECO:0000255 | HAMAP-Rule:MF_03130}. Cell junction, focal adhesion {ECO:0000255 | HAMAP-Rule:MF_03130}. Cell projection, axon {ECO:0000255 | HAMAP-Rule:MF_03130}. Cytoplasm, cytoskeleton {ECO:0000255 | HAMAP-Rule:MF_03130}. Cytoplasm, cytoskeleton, spindle {ECO:0000255 | HAMAP-Rule:MF_03130}

Images



WB Suggested Anti-Atat1 Antibody Titration: 1.0 µg/ml
Positive Control: Rat Kidney

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