

# C6orf134 antibody - middle region

Rabbit Polyclonal Antibody Catalog # AI12131

### **Product Information**

Application	WB
Primary Accession	<u>Q5SQI0</u>
Other Accession	<u>NM_024909</u> , <u>NP_079185</u>
Reactivity	Human, Mouse, Rat, Rabbit, Dog, Guinea Pig, Horse, Bovine
Predicted	Human, Mouse, Rat, Pig, Dog, Bovine
Host	Rabbit
Clonality	Polyclonal
Calculated MW	46810

## **Additional Information**

Gene ID	79969
Alias Symbol Other Names	DKFZp547J097, FLJ13158, Nbla00487, TAT, MEC17, C6orf134 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}, Z.3.1.108 {ECO:0000255   HAMAP-Rule:MF_03130}, Acetyltransferase mec-17 homolog {ECO:0000255   HAMAP-Rule:MF_03130}, ATAT1 {ECO:0000255   HAMAP-Rule:MF_03130}
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-C6orf134 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	C6orf134 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}
Function	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.
Cellular Location	Cytoplasm {ECO:0000255 HAMAP-Rule:MF_03130, ECO:0000269 PubMed:24097348}. Membrane, clathrin-coated pit {ECO:0000255 HAMAP-Rule:MF_03130, ECO:0000269 PubMed:24097348}. Cell junction, focal adhesion {ECO:0000255 HAMAP-Rule:MF_03130, ECO:0000269 PubMed:24097348}. 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}

#### References

Kimura, K., (2006) Genome Res. 16(1), 55-65 Reconstitution and Storage: Forshorttermuse, store at 2-8 Cupto 1 week. For short terms to rage, store at -20 Cinsmallal iquots to prevent freeze-thaw cycles.

#### Images



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