

# Katna1 antibody - C-terminal region

Rabbit Polyclonal Antibody Catalog # AI13395

#### **Product Information**

Application WB
Primary Accession Q9WV86

Other Accession <u>NM 011835</u>, <u>NP 035965</u>

**Reactivity** Human, Mouse, Rat, Rabbit, Zebrafish, Pig, Dog, Guinea Pig, Horse, Bovine

**Predicted** Human, Mouse, Rabbit, Pig, Dog, Horse, Bovine

Host Rabbit
Clonality Polyclonal
Calculated MW 55949

### **Additional Information**

Other Names Katanin p60 ATPase-containing subunit A1

{ECO:0000255|HAMAP-Rule:MF\_03023}, Katanin p60 subunit A1

{ECO:0000255 | HAMAP-Rule:MF\_03023}, 3.6.4.3

{ECO:0000255 | HAMAP-Rule:MF\_03023}, Lipotransin, p60 katanin

{ECO:0000255|HAMAP-Rule:MF\_03023}, Katna1

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-Katna1 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** Katna1 antibody - C-terminal region is for research use only and not for use in

diagnostic or therapeutic procedures.

### **Protein Information**

Name Katna1

**Function** Catalytic subunit of a complex which severs microtubules in an

ATP-dependent manner. Microtubule severing may promote rapid

Reversely KATNA1:KATNB1 can enhance ASPM blocking activity on

reorganization of cellular microtubule arrays and the release of microtubules from the centrosome following nucleation. Microtubule release from the mitotic spindle poles may allow depolymerization of the microtubule end proximal to the spindle pole, leading to poleward microtubule flux and poleward motion of chromosome. The function in regulating microtubule dynamics at spindle poles seems to depend on the association of the katanin KATNA1:KATNB1 complex with ASPM which recruits it to microtubules.

microtubule minus-end growth. Microtubule release within the cell body of neurons may be required for their transport into neuronal processes by microtubule-dependent motor proteins. This transport is required for axonal growth.

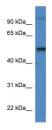
#### **Cellular Location**

Cytoplasm {ECO:0000255 | HAMAP-Rule:MF\_03023}. Midbody {ECO:0000255 | HAMAP-Rule:MF\_03023}. Cytoplasm, cytoskeleton, microtubule organizing center, centrosome {ECO:0000255 | HAMAP-Rule:MF\_03023}. Cytoplasm, cytoskeleton, spindle pole {ECO:0000255 | HAMAP-Rule:MF\_03023}. Cytoplasm, cytoskeleton, spindle {ECO:0000250 | UniProtKB:075449}. Note=Predominantly cytoplasmic Localized diffusely in the cytoplasm during the interphase. During metaphase is localized throughout the cell and more widely dispersed than the microtubules. In anaphase and telophase is localized at the midbody region. Also localized to the interphase centrosome and the mitotic spindle poles. Enhanced recruitment to the mitotic spindle poles requires microtubules and interaction with KATNB1 (By similarity). Localizes within the cytoplasm, partially overlapping with microtubules, in interphase and to the mitotic spindle and spindle poles during mitosis (By similarity). {ECO:0000250 | UniProtKB:075449, ECO:0000255 | HAMAP-Rule:MF\_03023}

#### References

Syu L.-J., et al. Mol. Cell 4:109-115(1999). Karabay A., et al. J. Neurosci. 24:5778-5788(2004).

## **Images**



WB Suggested Anti-Katna1 Antibody Titration: 1.0 μg/ml Positive Control: Mouse Spleen

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