

Anti-p60 katanin Rabbit Monoclonal Antibody

Catalog # ABO16309

Product Information

Application	WB, IF, ICC
Primary Accession	O75449
Host	Rabbit
Isotype	IgG
Reactivity	Human
Clonality	Monoclonal
Format	Liquid
Description	Anti-p60 katanin Rabbit Monoclonal Antibody . Tested in WB, ICC/IF applications. This antibody reacts with Human.

Additional Information

Gene ID	11104
Other Names	Katanin p60 ATPase-containing subunit A1 {ECO:0000255 HAMAP-Rule:MF_03023}, Katanin p60 subunit A1 {ECO:0000255 HAMAP-Rule:MF_03023}, 5.6.1.1 {ECO:0000255 HAMAP-Rule:MF_03023}, p60 katanin {ECO:0000255 HAMAP-Rule:MF_03023}, KATNA1 {ECO:0000255 HAMAP-Rule:MF_03023}
Calculated MW	55965
Application Details	WB 1:500-1:2000 ICC/IF 1:50-1:200
Source	Eukaryota
Contents	Rabbit IgG in phosphate buffered saline, pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol, 0.4-0.5mg/ml BSA.
Clone Names	Clone: 28K45
Immunogen	A synthesized peptide derived from human p60 katanin
Purification	Affinity-chromatography
Storage	Store at -20°C for one year. For short term storage and frequent use, store at 4°C for up to one month. Avoid repeated freeze-thaw cycles.

Protein Information

Name	KATNA1 {ECO:0000255 HAMAP-Rule:MF_03023}
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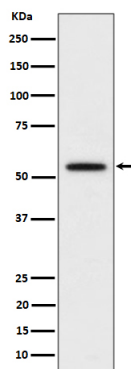
Function

Catalytic subunit of a complex which severs microtubules in an ATP-dependent manner. Microtubule severing may promote rapid 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. 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. Midbody. Cytoplasm, cytoskeleton, microtubule organizing center, centrosome {ECO:0000255 | HAMAP-Rule:MF_03023} Cytoplasm, cytoskeleton, spindle pole. Cytoplasm, cytoskeleton, spindle. Note=Predominantly cytoplasmic (PubMed:9658175). Localized diffusely in the cytoplasm during the interphase (PubMed:10751153). During metaphase is localized throughout the cell and more widely dispersed than the microtubules. In anaphase and telophase is localized at the midbody region (PubMed:19261606). Also localized to the interphase centrosome and the mitotic spindle poles (By similarity). Enhanced recruitment to the mitotic spindle poles requires microtubules and interaction with KATNB1 (PubMed:10751153). Localizes within the cytoplasm, partially overlapping with microtubules, in interphase and to the mitotic spindle and spindle poles during mitosis (PubMed:26929214). {ECO:0000255 | HAMAP- Rule:MF_03023, ECO:0000269 | PubMed:10751153, ECO:0000269 | PubMed:19261606, ECO:0000269 | PubMed:26929214, ECO:0000269 | PubMed:9658175}

Images



Western blot analysis of p60 katanin expression in HeLa cell lysate.

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