

**KATNB1 Antibody (Center)**  
**Affinity Purified Rabbit Polyclonal Antibody (Pab)**  
**Catalog # AP16597c****Specification**

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**KATNB1 Antibody (Center) - Product Information**

Application	WB,E
Primary Accession	<a href="#">Q9BVA0</a>
Other Accession	<a href="#">NP_005877.2</a>
Reactivity	Human
Host	Rabbit
Clonality	Polyclonal
Isotype	Rabbit IgG
Calculated MW	72334
Antigen Region	331-359

**KATNB1 Antibody (Center) - Additional Information****Gene ID** 10300**Other Names**

Katanin p80 WD40 repeat-containing subunit B1 {ECO:0000255|HAMAP-Rule:MF\_03022}, Katanin p80 subunit B1 {ECO:0000255|HAMAP-Rule:MF\_03022}, p80 katanin {ECO:0000255|HAMAP-Rule:MF\_03022}, KATNB1 {ECO:0000255|HAMAP-Rule:MF\_03022}

**Target/Specificity**

This KATNB1 antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 331-359 amino acids from the Central region of human KATNB1.

**Dilution**

WB~~1:1000

**Format**

Purified polyclonal antibody supplied in PBS with 0.09% (W/V) sodium azide. This antibody is purified through a protein A column, followed by peptide affinity purification.

**Storage**

Maintain refrigerated at 2-8°C for up to 2 weeks. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.

**Precautions**

KATNB1 Antibody (Center) is for research use only and not for use in diagnostic or therapeutic procedures.

**KATNB1 Antibody (Center) - Protein Information****Name** KATNB1 {ECO:0000255|HAMAP-Rule:MF\_03022}

**Function** Participates in a complex which severs microtubules in an ATP-dependent manner. May act to target the enzymatic subunit of this complex to sites of action such as the centrosome. 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. Cytoplasm, cytoskeleton, microtubule organizing center, centrosome. Cytoplasm, cytoskeleton, spindle pole. Cytoplasm, cytoskeleton. Cytoplasm, cytoskeleton, spindle.

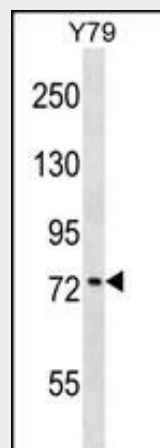
Note=Predominantly cytoplasmic. Localized to the interphase centrosome and mitotic spindle poles (PubMed:9658175). Localizes within the cytoplasm, partially overlapping with microtubules, in interphase and to the mitotic spindle and spindle poles during mitosis (PubMed:26929214)

#### KATNB1 Antibody (Center) - Protocols

Provided below are standard protocols that you may find useful for product applications.

- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

#### KATNB1 Antibody (Center) - Images



KATNB1 Antibody (Center) (Cat. #AP16597c) western blot analysis in Y79 cell line lysates (35ug/lane). This demonstrates the KATNB1 antibody detected the KATNB1 protein (arrow).

#### KATNB1 Antibody (Center) - Background

Microtubules, polymers of alpha and beta tubulin subunits, form the mitotic spindle of a dividing cell and help to organize membranous organelles during interphase. Katanin is a heterodimer that consists of a 60 kDa ATPase (p60 subunit A 1) and an 80 kDa

accessory protein (p80 subunit B 1). The p60 subunit acts to sever and disassemble microtubules, while the p80 subunit targets the enzyme to the centrosome. Katanin is a member of the AAA family of ATPases.

#### **KATNB1 Antibody (Center) - References**

Olson, J.E., et al. Breast Cancer Res. Treat. (2010) In press :  
Cummings, C.M., et al. J. Biol. Chem. 284(17):11663-11675(2009)  
Sudo, H., et al. Hum. Mol. Genet. 17(16):2524-2540(2008)  
Olsen, J.V., et al. Cell 127(3):635-648(2006)  
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