

KATNB1 Antibody (Center) Blocking Peptide
Synthetic peptide
Catalog # BP16597c**Specification**

KATNB1 Antibody (Center) Blocking Peptide - Product InformationPrimary Accession [Q9BVA0](#)**KATNB1 Antibody (Center) Blocking Peptide - 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}

Format

Peptides are lyophilized in a solid powder format. Peptides can be reconstituted in solution using the appropriate buffer as needed.

Storage

Maintain refrigerated at 2-8°C for up to 6 months. For long term storage store at -20°C.

Precautions

This product is for research use only. Not for use in diagnostic or therapeutic procedures.

KATNB1 Antibody (Center) Blocking Peptide - 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) Blocking Peptide - Protocols

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

- [Blocking Peptides](#)

KATNB1 Antibody (Center) Blocking Peptide - Images

KATNB1 Antibody (Center) Blocking Peptide - 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) Blocking Peptide - 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) Olsen, J.V., et al. Cell 127(3):635-648(2006)