

Recombinant Mouse Katnb1 Protein, Myc/DDK-tagged

Cat. No. Katnb1-3647M **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Purified recombinant protein of mouse full-length katanin p80 (WD40-containing) subunit B 1 (Katnb1), with C-terminal MYC/DDK tag, expressed in HEK293T cells.
Species	Mouse
Source	HEK293
Description	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. 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. Reversely KATNA1:KATNB1 can enhance ASPM blocking activity on 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.
Molecular Mass	72.6 kDa
Purity	> 80% as determined by SDS-PAGE and Coomassie blue staining

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Stability	Stable for 12 months from the date of receipt of the product under proper storage and handling conditions. Avoid repeated freeze-thaw cycles.
Storage	Store at -80 centigrade after receiving vials.
Concentration	>50 µg/mL as determined by microplate BCA method
Storage Buffer	25 mM Tris.HCl, pH 7.3, 100 mM glycine, 10% glycerol.

GENE INFORMATION

Gene Name	Katnb1 katanin p80 (WD40-containing) subunit B 1 [Mus musculus (house mouse)]
Official Symbol	Katnb1
Synonyms	KATNB1; katanin p80 (WD40-containing) subunit B 1; katanin p80 WD40-containing subunit B1; p80 katanin; katanin p80 subunit B1; KAT; 2410003J24Rik
Gene ID	74187
mRNA Refseq	NM_028805
Protein Refseq	NP_083081
UniProt ID	Q8BG40

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