

Katanin p80 B1 (H-300): sc-292216

BACKGROUND

Microtubules are polymers of α and β subunits that form the mitotic spindle and assist in the organization of membranous organelles during interphase. katanin is a heterodimer complex that severs microtubules in an ATP-dependent manner. The severing of microtubules by the katanin complex may promote reorganization of cellular microtubule arrays and release of microtubules from the centrosome following nucleation. The katanin complex is composed of a 60 kDa subunit (Katanin p60 A1) and a 80 kDa accessory protein (Katanin p80 B1). Katanin p60 A1 is responsible for the severing and disassembly of microtubules, while Katanin p80 B1 targets the complex to the centrosome.

REFERENCES

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4. Ahmad, F.J., et al. 1999. An essential role for katanin in severing microtubules in the neuron. *J. Cell Biol.* 145: 305-315.
5. McNally, K.P., et al. 2000. Two domains of p80 katanin regulate microtubule severing and spindle pole targeting by p60 katanin. *J. Cell Sci.* 113: 1623-1633.
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CHROMOSOMAL LOCATION

Genetic locus: KATNB1 (human) mapping to 16q21; Katnb1 (mouse) mapping to 8 D1.

SOURCE

Katanin p80 B1 (H-300) is a rabbit polyclonal antibody raised against amino acids 356-655 mapping at the C-terminus of Katanin p80 B1 of human origin.

PRODUCT

Each vial contains 200 μ g IgG in 1.0 ml of PBS with < 0.1% sodium azide and 0.1% gelatin.

RESEARCH USE

For research use only, not for use in diagnostic procedures.

APPLICATIONS

Katanin p80 B1 (H-300) is recommended for detection of Katanin p80 B1 of mouse, rat and human origin by Western Blotting (starting dilution 1:200, dilution range 1:100-1:1000), immunoprecipitation [1-2 μ g per 100-500 μ g of total protein (1 ml of cell lysate)], immunofluorescence (starting dilution 1:50, dilution range 1:50-1:500) and solid phase ELISA (starting dilution 1:30, dilution range 1:30-1:3000).

Suitable for use as control antibody for Katanin p80 B1 siRNA (h): sc-93267, Katanin p80 B1 siRNA (m): sc-146344, Katanin p80 B1 shRNA Plasmid (h): sc-93267-SH, Katanin p80 B1 shRNA Plasmid (m): sc-146344-SH, Katanin p80 B1 shRNA (h) Lentiviral Particles: sc-93267-V and Katanin p80 B1 shRNA (m) Lentiviral Particles: sc-146344-V.

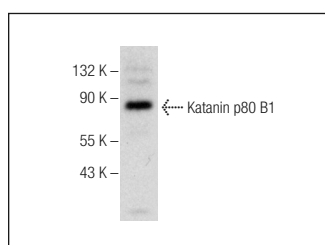
Molecular Weight of Katanin p80 B1: 80 kDa.

Positive Controls: IMR-32 cell lysate: sc-2409.

RECOMMENDED SECONDARY REAGENTS

To ensure optimal results, the following support (secondary) reagents are recommended: 1) Western Blotting: use goat anti-rabbit IgG-HRP: sc-2004 (dilution range: 1:2000-1:100,000) or Cruz Marker™ compatible goat anti-rabbit IgG-HRP: sc-2030 (dilution range: 1:2000-1:5000), Cruz Marker™ Molecular Weight Standards: sc-2035, TBS Blotto A Blocking Reagent: sc-2333 and Western Blotting Luminol Reagent: sc-2048. 2) Immunoprecipitation: use Protein A/G PLUS-Agarose: sc-2003 (0.5 ml agarose/2.0 ml). 3) Immunofluorescence: use goat anti-rabbit IgG-FITC: sc-2012 (dilution range: 1:100-1:400) or goat anti-rabbit IgG-TR: sc-2780 (dilution range: 1:100-1:400) with UltraCruz™ Mounting Medium: sc-24941.

DATA



Katanin p80 B1 (H-300): sc-292216. Western blot analysis of Katanin p80 B1 expression in IMR-32 whole cell lysate.

STORAGE

Store at 4° C, **DO NOT FREEZE**. Stable for one year from the date of shipment. Non-hazardous. No MSDS required.

MONOS
Satisfaction
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Try **Katanin p80 B1 (C-4): sc-377226**, our highly recommended monoclonal alternative to Katanin p80 B1 (H-300).