

Katanin p60 AL1 (P-20): sc-84324

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. Katanin p60 A1 and Katanin p80 B1 belong to the AAA ATPase family, which also includes the Katanin p60 A1-like proteins, Katanin p60 AL1 and Katanin p60 AL2.

REFERENCES

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CHROMOSOMAL LOCATION

Genetic locus: KATNAL1 (human) mapping to 13q12.3; Katnal1 (mouse) mapping to 5 G3.

SOURCE

Katanin p60 AL1 (P-20) is an affinity purified rabbit polyclonal antibody raised against a peptide mapping within an internal region of Katanin p60 AL1 of human origin.

PRODUCT

Each vial contains 100 μ g IgG in 1.0 ml of PBS with < 0.1% sodium azide and 0.1% gelatin.

Blocking peptide available for competition studies, sc-84324 P, (100 μ g peptide in 0.5 ml PBS containing < 0.1% sodium azide and 0.2% BSA).

APPLICATIONS

Katanin p60 AL1 (P-20) is recommended for detection of Katanin p60 AL1 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).

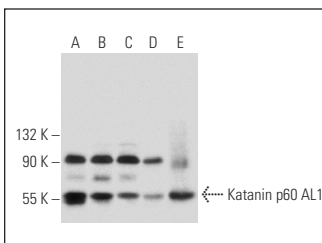
Katanin p60 AL1 (P-20) is also recommended for detection of Katanin p60 AL1 in additional species, including canine, bovine and porcine.

Suitable for use as control antibody for Katanin p60 AL1 siRNA (h): sc-75364, Katanin p60 AL siRNA (m): sc-146342, Katanin p60 AL1 shRNA Plasmid (h): sc-75364-SH, Katanin p60 AL shRNA Plasmid (m): sc-146342-SH, Katanin p60 AL1 shRNA (h) Lentiviral Particles: sc-75364-V and Katanin p60 AL shRNA (m) Lentiviral Particles: sc-146342-V.

Molecular Weight of Katanin p60 AL1: 55 kDa.

Positive Controls: HeLa whole cell lysate: sc-2200, Jurkat whole cell lysate: sc-2204 or NIH/3T3 whole cell lysate: sc-2210.

DATA



Katanin p60 AL1 (P-20): sc-84324. Western blot analysis of Katanin p60 AL1 expression in HeLa (A), HEK293 (B), Jurkat (C), K-562 (D) and NIH/3T3 (E) whole cell lysates.

STORAGE

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

RESEARCH USE

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



Try **Katanin p60 AL1 (A-10): sc-373814** or **Katanin p60 AL1 (E-5): sc-398801**, our highly recommended monoclonal alternatives to Katanin p60 AL1 (P-20).