

# KATNB1

## Polyclonal ANTIBODY

Catalog Number: 14969-1-AP

Featured Product

3 Publications

### Basic Information

**Catalog Number:**  
14969-1-AP

**Size:**  
32 µg/150 µl

**Source:**  
Rabbit

**Isotype:**  
IgG

**Purification Method:**  
Antigen affinity purification

**Immunogen Catalog Number:**  
AG6836

**GenBank Accession Number:**  
BC001353

**GeneID (NCBI):**  
10300

**Full Name:**  
katanin p80 (WD repeat containing) subunit B 1

**Calculated MW:**  
72 kDa

**Observed MW:**  
72-80 kDa

**Recommended Dilutions:**

WB 1:500-1:2000

IP 0.5-4.0 µg for IP and 1:500-1:1000 for WB

IF 1:50-1:500

### Applications

**Tested Applications:**

IF, IP, WB, ELISA

**Cited Applications:**

IF, WB

**Species Specificity:**

human,mouse,rat

**Cited Species:**

human, mouse

**Positive Controls:**

WB : HeLa cells; A431 cells, HepG2 cells, mouse skeletal muscle tissue

IP : HeLa cells;

IF : HeLa cells;

### Background Information

Katanin p80 WD40-containing subunit B1 is a protein that in humans is encoded by the KATNB1 gene. 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.

### Notable Publications

Author	Pubmed ID	Journal	Application
Kai Jiang	24486153	Dev Cell	WB
Kai Jiang	29395789	Structure	WB
Wen F Hu	25521379	Neuron	WB, IF

### Storage

**Storage:**

Store at -20°C. Stable for one year after shipment.

**Storage Buffer:**

PBS with 0.02% sodium azide and 50% glycerol pH 7.3.

Aliquoting is unnecessary for -20°C storage

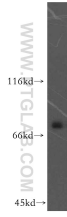
For technical support and original validation data for this product please contact:

T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or 1(312) 455-8498 (outside USA)

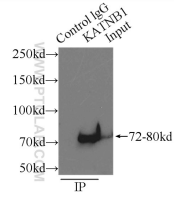
E: [proteintech@ptglab.com](mailto:proteintech@ptglab.com)  
W: [ptglab.com](http://ptglab.com)

This product is exclusively available under Proteintech Group brand and is not available to purchase from any other manufacturer.

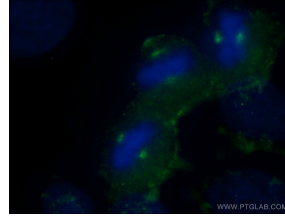
## Selected Validation Data



HeLa cells were subjected to SDS PAGE followed by western blot with 14969-1-AP(KATNB1 antibody) at dilution of 1:300 incubated at room temperature for 1.5 hours



IP Result of anti-KATNB1 (IP:14969-1-AP, 3ug; Detection:14969-1-AP 1:500) with HeLa cells lysate 3000ug.



Immunofluorescent analysis of (-20) Ethanol fixed HeLa cells using 14969-1-AP(KATNB1 antibody) at dilution of 1:50 and Alexa Fluor 488-conjugated AffiniPure Goat Anti-Rabbit IgG(H+L)