

For Research Use Only

# Dynamitin (1-83 AA) Polyclonal antibody

Catalog Number: 10031-2-AP

1 Publications



## Basic Information

### Catalog Number:

10031-2-AP

### Size:

150ul, Concentration: 600 ug/ml by Nanodrop and 333 ug/ml by Bradford method using BSA as the standard;

### Source:

Rabbit

### Isotype:

IgG

### GenBank Accession Number:

BC000718

### GeneID (NCBI):

10540

### UNIPROT ID:

Q13561

### Full Name:

dynactin 2 (p50)

### Calculated MW:

50 kDa

### Observed MW:

50 kDa

### Purification Method:

Antigen affinity purification

### Recommended Dilutions:

WB 1:500-1:2000

IP 0.5-4.0 ug for 1.0-3.0 mg of total protein lysate

## Applications

### Tested Applications:

WB, IP, ELISA

### Cited Applications:

WB

### Species Specificity:

human, mouse

### Cited Species:

mouse

### Positive Controls:

WB : mouse brain tissue, mouse testis tissue, mouse lung tissue, human testis tissue

IP : mouse brain tissue,

## Background Information

Dynamitin is a 50 kDa protein containing a calmodulin binding domain, a putative ATPase domain and MacMARCKS-binding domain. This protein is a part of the dynactin complex believed to link the dynactin complex to membrane compartments. Its functions are tightly associated with dynein motor protein, thus extend to vesicle trafficking and membrane integrity. Dynamitin was named so because its overexpression causes dynactin complex which contains 10 subunits, to disassemble. Its N terminal 58 amino acid is for MacMARCKS binding and residues 59-83 is responsible for calmodulin binding. This antibody is against the N terminal 59aa of full length p50 dynamitin.

## Notable Publications

Author	Pubmed ID	Journal	Application
Cheng Zhiyong Z	19838201	Nat Med	WB

## 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

\*\*\* 20ul sizes contain 0.1% BSA

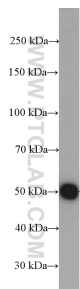
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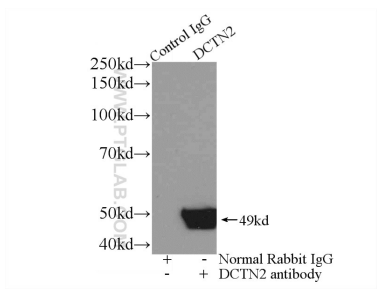
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Selected Validation Data



mouse brain tissue were subjected to SDS PAGE followed by western blot with 10031-2-AP (Dynamitin antibody) at dilution of 1:1000 incubated at room temperature for 1.5 hours.



IP result of anti-Dynamitin (1-83 AA) (IP:10031-2-AP, 3ug; Detection:10031-2-AP 1:800) with mouse brain tissue lysate 4000ug.