

## Dynamitin Polyclonal Antibody

Catalog number: 11361-1-AP

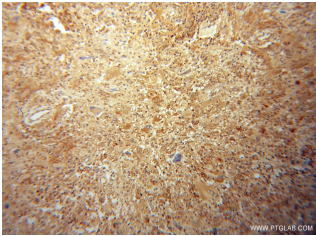
Size: 25 µg/150 µl

Source: Rabbit

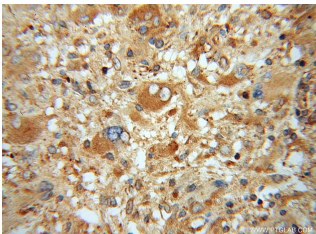
Isotype: IgG

Synonyms:

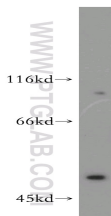
DCTN2; DCTN 50, DCTN2,  
DCTN50, dynactin 2, dynactin 2  
(p50), Dynactin subunit 2,  
DYNAMITIN, p50 dynamitin,  
RBP50



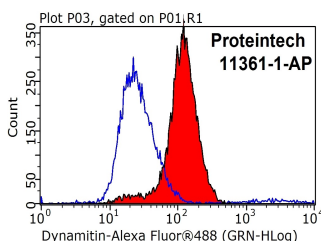
Immunohistochemical of paraffin-embedded human gliomas using 11361-1-AP (dynactin-2 antibody) at dilution of 1:50 (under 10x lens)



Immunohistochemical of paraffin-embedded human gliomas using 11361-1-AP (dynactin-2 antibody) at dilution of 1:50 (under 40x lens)



mouse testis tissue were subjected to SDS PAGE followed by western blot with 11361-1-AP (dynactin-2 antibody) at dilution of 1:800



### Background

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 full length p50 dynamitin.

### Applications

Tested applications:	ELISA, WB, IHC, FC
Species specificity:	Human, Mouse, Rat; other species not tested.
Calculated Dynamitin MW:	401aa, 44 kDa
Observed Dynamitin MW:	50kd
Positive WB detected in	Mouse testis tissue, MCF7 cells, mouse brain tissue, mouse lung tissue
Positive IHC detected in	Human gliomas tissue
Positive FC detected in	HeLa cells
Recommended dilution:	WB: 1:200-1:2000 IHC: 1:20-1:200 FC: N/A

Application key: WB = Western blotting, IHC = Immunohistochemistry, IF = Immunofluorescence, IP = Immunoprecipitation

### Immunogen information

Immunogen:	Ag1902
GenBank accession number:	BC014083
Gene ID (NCBI):	10540
Full name:	Dynactin 2 (p50)

### Product information

Purification method:	Antigen affinity purification
Storage:	PBS with 0.02% sodium azide and 50% glycerol pH 7.3. Store at -20°C.

1X10<sup>6</sup> HeLa cells were stained with 1 $\mu$ g dynactin-2 antibody (11361-1-AP, red) and control antibody (blue). Fixed with 90% MeOH blocked with 3% BSA (30 min). Alexa Fluor 488-conjugated AffiniPure Goat Anti-Rabbit IgG(H+L) with dilution 1:1000.