

For Research Use Only

# Dynamitin (1-401 AA) Polyclonal antibody

Catalog Number: 11361-1-AP



## Basic Information

<b>Catalog Number:</b> 11361-1-AP	<b>GenBank Accession Number:</b> BC014083	<b>Purification Method:</b> Antigen affinity purification
<b>Size:</b> 150ul , Concentration: 300 ug/ml by Nanodrop and 167 ug/ml by Bradford method using BSA as the standard;	<b>GeneID (NCBI):</b> 10540	<b>Recommended Dilutions:</b> WB 1:500-1:2000 IHC 1:50-1:500
<b>Source:</b> Rabbit	<b>UNIPROT ID:</b> Q13561	
<b>Isotype:</b> IgG	<b>Full Name:</b> dynactin 2 (p50)	
<b>Immunogen Catalog Number:</b> AG1902	<b>Calculated MW:</b> 401 aa, 44 kDa	
	<b>Observed MW:</b> 50 kDa	

## Applications

**Tested Applications:**  
WB, IHC, ELISA

**Species Specificity:**  
human, mouse, rat

**Note-IHC:** suggested antigen retrieval with **TE buffer pH 9.0; (\*) Alternatively, antigen retrieval may be performed with citrate buffer pH 6.0**

**Positive Controls:**

**WB :** A375 cells, MCF-7 cells, SH-SY5Y cells, mouse brain tissue, mouse testis tissue, rat brain tissue

**IHC :** human stomach cancer 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 59-83aa is responsible for calmodulin binding. This antibody is against the full length p50 dynamitin.

## Storage

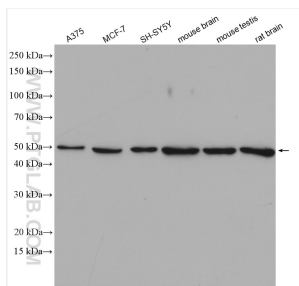
**Storage:**  
Store at -20°C. Stable for one year after shipment.  
**Storage Buffer:**  
PBS with 0.02% sodium azide and 50% glycerol pH 7.3.  
**Aliquoting is unnecessary for -20°C storage**

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

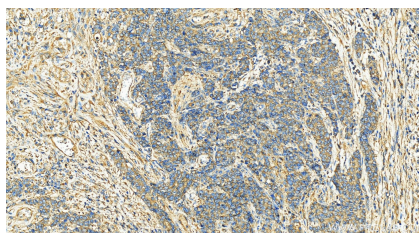
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## Selected Validation Data



Various lysates were subjected to SDS PAGE followed by western blot with 11361-1-AP (Dynamitin (1-401 AA) antibody) at dilution of 1:1000 incubated at room temperature for 1.5 hours.



Immunohistochemical analysis of paraffin-embedded human stomach cancer tissue slide using 11361-1-AP (Dynamitin (1-401 AA) antibody) at dilution of 1:200 (under 20x lens). Heat mediated antigen retrieval with Sodium Citrate buffer (pH 6.0).