

For Research Use Only

# DYNC1H1 Polyclonal antibody

Catalog Number: 12345-1-AP

Featured Product

55 Publications



## Basic Information

### Catalog Number:

12345-1-AP

### Size:

150ul, Concentration: 400 ug/ml by Nanodrop;

### Source:

Rabbit

### Isotype:

IgG

### Immunogen Catalog Number:

AG2999

### GenBank Accession Number:

BC021297

### GeneID (NCBI):

1778

### UNIPROT ID:

Q14204

### Full Name:

dynein, cytoplasmic 1, heavy chain 1

### Calculated MW:

4646 aa, 532 kDa

### Observed MW:

532 kDa

### Purification Method:

Antigen affinity purification

### Recommended Dilutions:

WB 1:2000-1:12000

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

IHC 1:50-1:500

IF/ICC 1:200-1:800

## Applications

### Tested Applications:

WB, IHC, IF/ICC, IP, ELISA

### Cited Applications:

WB, IHC, IF, IP, CoIP

### Species Specificity:

human, mouse, rat, zebrafish

### Cited Species:

human, mouse, rat, pig, zebrafish

**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**: HeLa cells, human brain tissue, mouse brain tissue, Jurkat cells

**IP**: HeLa cells,

**IHC**: mouse brain tissue, human breast cancer tissue, human normal colon, human testis tissue

**IF/ICC**: MCF-7 cells,

## Background Information

Dyneins are a group of microtubule-activated ATPases that serve to convert chemical energy into mechanical energy. It can be divided into 2 large subgroups, namely, the axonemal and cytoplasmic dyneins. The conventional cytoplasmic dynein are comprised of 2 heavy chain polypeptides and a number of intermediate and light chains. DYNC1H1 is a cytoplasmic dynein and belongs to the dynein heavy chain family. It acts as a motor for the intracellular retrograde motility of vesicles and organelles along microtubules. DYNC1H1 has been implicated in the degeneration of dopaminergic neuron axons and motor neurons in PD patients..

## Notable Publications

Author	Pubmed ID	Journal	Application
Didi-Andreas Song	36180036	Mol Cell Proteomics	
Xiang Zhang	28924223	Sci Rep	IF
Jie Liang	31488728	Aging (Albany NY)	WB

## Storage

### Storage:

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

### Storage Buffer:

PBS with 0.02% sodium azide and 50% glycerol, pH7.3

Aliquoting is unnecessary for -20°C storage

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

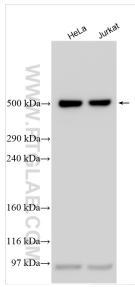
For technical support and original validation data for this product please contact:

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

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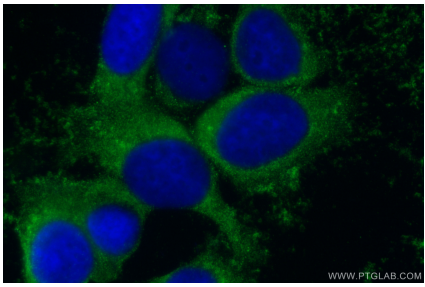
Selected Validation Data



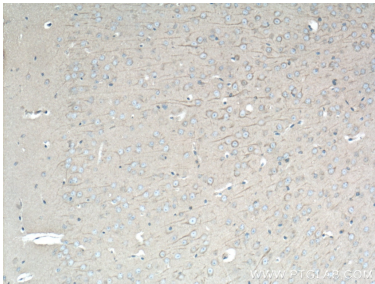
Various lysates were subjected to SDS PAGE followed by western blot with 12345-1-AP (DYNC1H1 antibody) at dilution of 1:6000 incubated at room temperature for 1.5 hours.



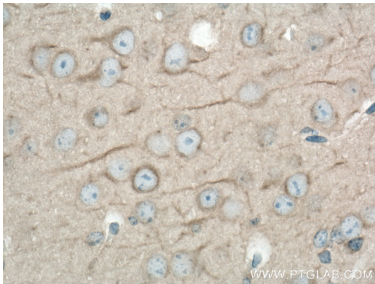
HeLa cells were subjected to SDS PAGE followed by western blot with 12345-1-AP (DYNC1H1 antibody) at dilution of 1:500 incubated at room temperature for 1.5 hours.



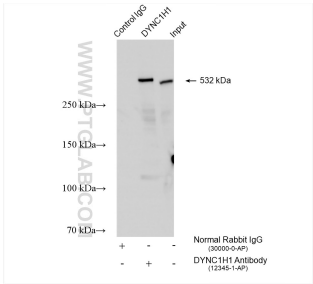
Immunofluorescent analysis of (-20°C Methanol) fixed MCF-7 cells using DYNC1H1 antibody (12345-1-AP) at dilution of 1:400 and CoraLite@488-Conjugated Goat Anti-Rabbit IgG(H+L) (SA00013-2).



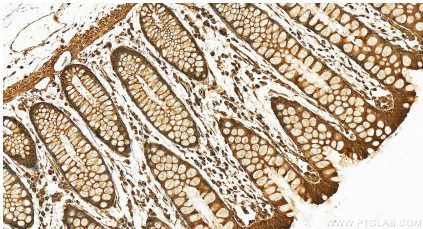
Immunohistochemical analysis of paraffin-embedded mouse brain tissue slide using 12345-1-AP (DYNC1H1 antibody) at dilution of 1:200 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



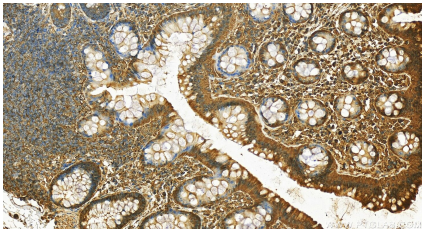
Immunohistochemical analysis of paraffin-embedded mouse brain tissue slide using 12345-1-AP (DYNC1H1 antibody) at dilution of 1:200 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



IP result of anti-DYNC1H1 (IP:12345-1-AP, 4ug; Detection:12345-1-AP 1:5000) with HeLa cells lysate 1085 ug.



Immunohistochemical analysis of paraffin-embedded human normal colon slide using 12345-1-AP (DYNC1H1 antibody) at dilution of 1:100 (under 20x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunohistochemical analysis of paraffin-embedded human colon tissue slide using 12345-1-AP (DYNC1H1 antibody) at dilution of 1:100 (under 20x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).