For Research Use Only

DYNC1H1 Polyclonal antibody

Catalog Number:12345-1-AP Featured Product 51 Publications

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Basic Information

Catalog Number:
12345-1-AP

Size:
400 μg/ml

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 1:500-1:1000
IP 0.5-4.0 ug for 1.0-3.0 mg of total protein lysate
IHC 1:50-1:500
IF 1:20-1:200

Applications

Tested Applications:
IF/ICC, IHC, IP, WB, ELISA

Cited Applications:
CoIP, IF, IHC, IP, WB

Species Specificity:
human, rat, zebrafish, mouse

Cited Species:
human, rat, mouse, zebrafish, pig

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, mouse brain tissue, human brain tissue

IP : HeLa cells,

IHC : mouse brain tissue, human breast cancer tissue, human testis tissue

IF : 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

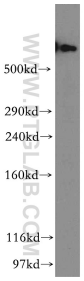
Author	Pubmed ID	Journal	Application
Didi-Andreas Song	36180036	Mol Cell Proteomics	
Xiang Zhang	28924223	Sci Rep	IF
Jie Liang	31488728	Aging (Albany NY)	WB

Storage

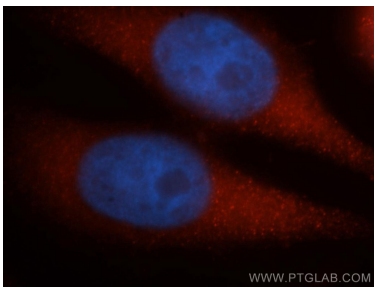
Storage:
Store at -20°C. Stable for one year after shipment.
Storage Buffer:
PBS with 0.02% sodium azide and 50% glycerol pH 7.3.
Aliquoting is unnecessary for -20°C storage

For technical support and original validation data for this product please contact:
T: 4006900926 E: Proteintech-CN@ptglab.com W: ptgcn.com

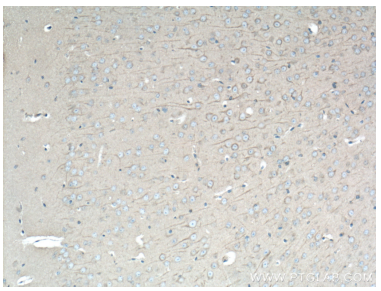
Selected Validation Data



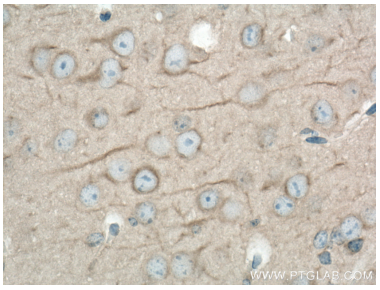
HeLa cells were subjected to SDS PAGE followed by western blot with 12345-1-AP (DYNC1H1 antibody) at dilution of 1:500 incubated at room temperature for 1.5 hours.



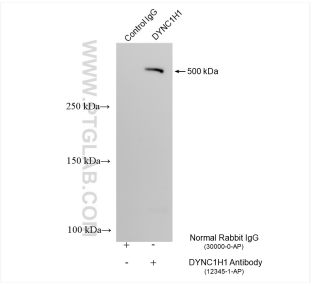
Immunofluorescent analysis of MCF-7 cells, using DYNC1H1 antibody 12345-1-AP at 1:50 dilution and Rhodamine-labeled goat anti-rabbit IgG (red). Blue pseudocolor = DAPI (fluorescent DNA dye).



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 1:1500) with HeLa cells lysate 1320 ug.