DYNC1H1 Polyclonal antibody

Catalog Number: 12345-1-AP

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Basic Information

Catalog Number: 12345-1-AP	**GenBank Accession Number:** BC021297
Concentration: 400 ug/ml	**GeneID (NCBI):** 1778
Source: Rabbit	**UNIPROT ID:** Q14204
Isotype: IgG	**Full Name:** dynein, cytoplasmic 1, heavy chain 1
Immunogen Catalog Number: AG2999	**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, 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℃. 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
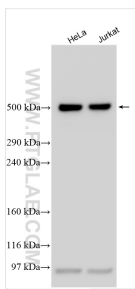
This product is exclusively available under Proteintech Group brand and is not available to purchase from any other manufacturer.
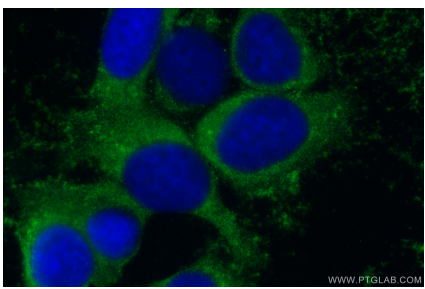
# Selected Validation Data
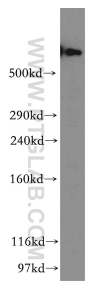
HeLa cells were subjected to SDS PAGE followed by western blot with 12345-1-AP (DYNC1H1 antibody) at dilution of 1:500 incubated at room temperature for 1.5 hours.


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.


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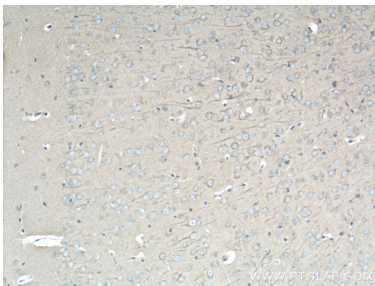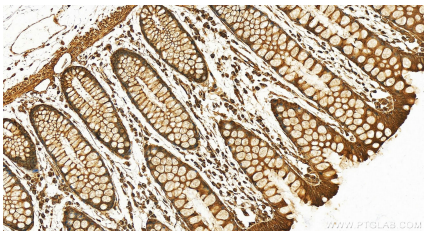

Immunohistochemical analysis of paraffin-embedded mouse brain tissue slide using 12345-1-AP (DYNC1H1 antibody) at dilution of 1:200 (under 10x lens. Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).
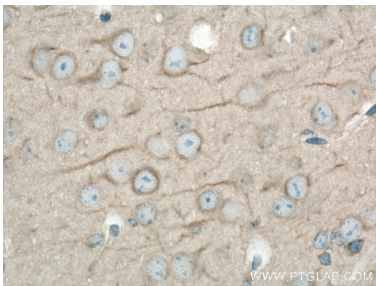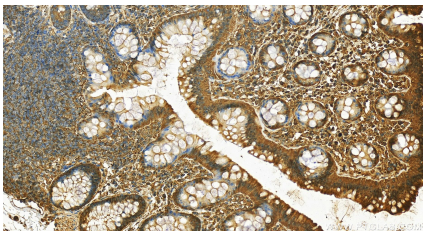

Immunohistochemical analysis of paraffin-embedded mouse brain tissue slide using 12345-1-AP (DYNC1H1 antibody) at dilution of 1:200 (under 40x lens. Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).
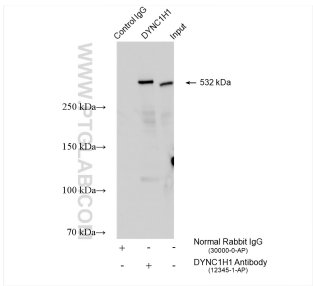
IP result of anti-DYNC1H1 (IP:12345-1-AP, 4ug; Detection:12345-1-AP 1:5000) with HeLa cells lysate 1085 ug.

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).