For Research Use Only

LC8/DYNLL1 Polyclonal antibody

Catalog Number:18130-1-AP 2 Publications

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Basic Information

Catalog Number:
18130-1-AP

Size:
450 μg/ml

Source:
Rabbit

Isotype:
IgG

Immunogen Catalog Number:
AG12710

GenBank Accession Number:
BC100289

GeneID (NCBI):
8655

UNIPROT ID:
P63167

Full Name:
dynein, light chain, LC8-type 1

Calculated MW:
89 aa, 10 kDa

Observed MW:
8-10 kDa

Purification Method:
Antigen affinity purification

Recommended Dilutions:
WB 1:1000-1:4000
IP 0.5-4.0 ug for 1.0-3.0 mg of total protein lysate
IHC 1:200-1:800
IF/ICC 1:200-1:800

Applications

Tested Applications:
WB, IHC, IF/ICC, FC (Intra), IP, ELISA

Cited Applications:
WB

Species Specificity:
human, mouse, rat

Cited Species:
human, mouse

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 : HEK-293 cells, HeLa cells, Jurkat cells, MCF-7 cells, mouse brain tissue, mouse cerebellum tissue, mouse testis tissue

IP : MCF-7 cells,

IHC : mouse brain tissue, human liver tissue

IF/ICC : MCF-7 cells,

Background Information

LC8 (also known as DYNLL1) is a homodimeric sequence-specific chaperone that promotes the ordered (typically homo-) oligomerization of more than a hundred protein targets. LC8/DYNLL1 has previously been proposed to function as an inhibitor of the NF-κB pathway, based on findings that it can bind directly to the IκBα regulatory region(PMID: 18579519). LC8/DYNLL1 regulates apoptotic activities of BCL2L11 by sequestering it to microtubules.

Notable Publications

Author	Pubmed ID	Journal	Application
Ankur A Gholkar	25830415	Cell Cycle	WB
Moxuan Zhao	37315217	Nanotoxicology	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:
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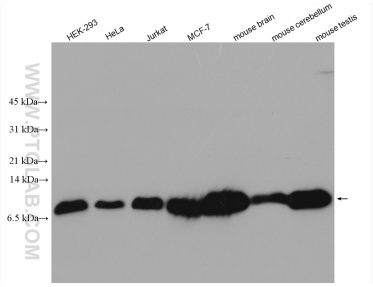
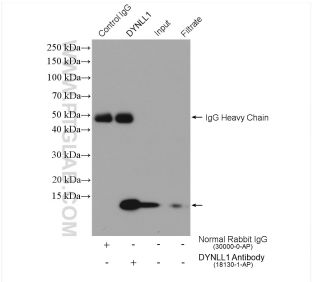
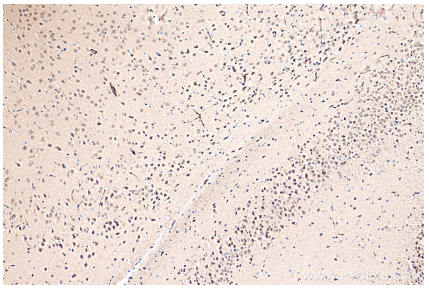
Selected Validation Data



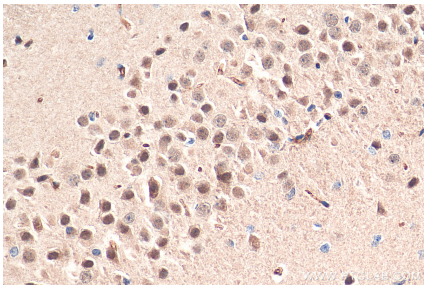
Various lysates were subjected to SDS PAGE followed by western blot with 18130-1-AP (LC8/DYNLL1 antibody) at dilution of 1:2000 incubated at room temperature for 1.5 hours.



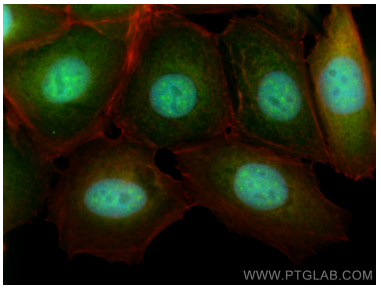
IP result of anti-LC8/DYNLL1 (IP:18130-1-AP, 4ug; Detection:18130-1-AP 1:1000) with MCF-7 cells lysate 640 ug.



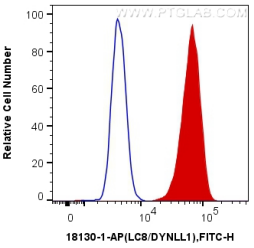
Immunohistochemical analysis of paraffin-embedded mouse brain tissue slide using 18130-1-AP (LC8/DYNLL1 antibody) at dilution of 1:400 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunohistochemical analysis of paraffin-embedded mouse brain tissue slide using 18130-1-AP (LC8/DYNLL1 antibody) at dilution of 1:400 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunofluorescent analysis of (4% PFA) fixed MCF-7 cells using LC8/DYNLL1 antibody (18130-1-AP) at dilution of 1:400 and CoraLite®488-Conjugated AffiniPure Goat Anti-Rabbit IgG(H+L), CL594-Phalloidin (red).



1X10^6 Jurkat cells were intracellularly stained with 0.4 ug Anti-Human LC8/DYNLL1 (18130-1-AP) and CoraLite®488-Conjugated AffiniPure Goat Anti-Rabbit IgG(H+L) at dilution 1:1000 (red), or 0.4 ug x. Cells were fixed and permeabilized with Transcription Factor Staining Buffer Kit (PF00011).