

For Research Use Only

DYNLT1 Polyclonal antibody

Catalog Number: 11954-1-AP

Featured Product

10 Publications



Basic Information

Catalog Number:

11954-1-AP

Size:

150ul, Concentration: 650 ug/ml by Nanodrop and 407 ug/ml by Bradford method using BSA as the standard;

Source:

Rabbit

Isotype:

IgG

Immunogen Catalog Number:

AG2557

GenBank Accession Number:

BC029412

GeneID (NCBI):

6993

UNIPROT ID:

P63172

Full Name:

dynein, light chain, Tctex-type 1

Calculated MW:

113 aa, 12 kDa

Observed MW:

12 kDa

Purification Method:

Antigen affinity purification

Recommended Dilutions:

WB 1:300-1:600

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

IHC 1:20-1:200

IF-P 1:50-1:500

IF/ICC 1:50-1:500

Applications

Tested Applications:

WB, IHC, IF/ICC, IF-P, IP, ELISA

Cited Applications:

WB, IHC, IF

Species Specificity:

human, mouse, rat

Cited Species:

human, mouse

Positive Controls:

WB : human brain tissue, human heart tissue, Sp2/O cells

IP : mouse skeletal muscle tissue,

IHC : human pancreas tissue,

IF-P : mouse testis tissue,

IF/ICC : SH-SY5Y cells,

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

Background Information

DYNLT (or Tctex-1) was originally described as a light chain component of the dynein motor complex. Tctex-1 also has several dynein-independent functions, including roles in G protein signaling activation and neuronal growth. Tctex-1 is selectively enriched in proliferating neural progenitors of both embryonic and adult brains. Genetic knockdown of Tctex-1 in radial precursors promoted neurogenesis, indicating its implication in regulation of cortical neurogenesis. (Pubmed: 19448628)

Notable Publications

Author	Pubmed ID	Journal	Application
Marina Nagler	26410677	Biochem Pharmacol	WB
Yiqing Wang	34810061	J Clin Neurosci	WB
Tianyu Wu	36395215	Science	IF

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

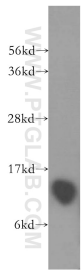
For technical support and original validation data for this product please contact:

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

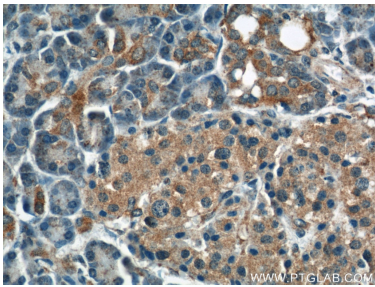
E: proteintech@ptglab.com
W: ptglab.com

This product is exclusively available under Proteintech Group brand and is not available to purchase from any other manufacturer.

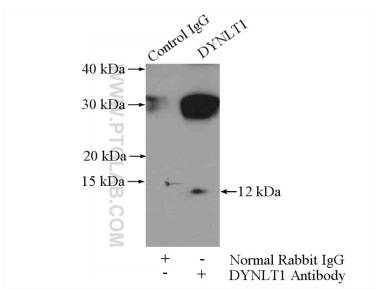
Selected Validation Data



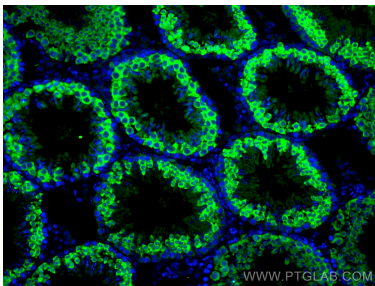
human brain tissue were subjected to SDS PAGE followed by western blot with 11954-1-AP (DYNLT1 antibody) at dilution of 1:500 incubated at room temperature for 1.5 hours.



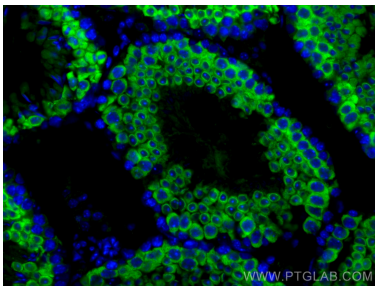
Immunohistochemical analysis of paraffin-embedded human pancreas using 11954-1-AP (DYNLT1 antibody) at dilution of 1:50 (under 40x lens).



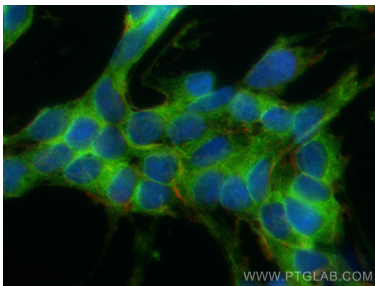
IP result of anti-DYNLT1 (IP:11954-1-AP, 4ug; Detection:11954-1-AP 1:300) with mouse skeletal muscle tissue lysate 3600ug.



Immunofluorescent analysis of (4% PFA) fixed mouse testis tissue using DYNLT1 antibody (11954-1-AP) at dilution of 1:200 and CoraLite@488-Conjugated AffiniPure Goat Anti-Rabbit IgG(H+L).



Immunofluorescent analysis of (4% PFA) fixed mouse testis tissue using DYNLT1 antibody (11954-1-AP) at dilution of 1:200 and CoraLite@488-Conjugated AffiniPure Goat Anti-Rabbit IgG(H+L).



Immunofluorescent analysis of (4% PFA) fixed SH-SY5Y cells using DYNLT1 antibody (11954-1-AP) at dilution of 1:200 and CoraLite@488-Conjugated Goat Anti-Rabbit IgG(H+L) (SA00013-2), CL594-Phalloidin (red).