

For Research Use Only

# DYNLT1 Polyclonal antibody

Catalog Number: 11954-1-AP

Featured Product

8 Publications



## Basic Information

**Catalog Number:**  
11954-1-AP

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

**Source:**  
Rabbit

**Isotype:**  
IgG

**Immunogen Catalog Number:**  
AG2557

**GenBank Accession Number:**  
BC029412

**GeneID (NCBI):**  
6993

**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 µg for IP and 1:200-1:1000 for WB  
IHC 1:20-1:200  
IF 1:50-1:500

## Applications

**Tested Applications:**  
IF, IHC, IP, WB, ELISA

**Cited Applications:**  
IF, IHC, 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:** human brain tissue, human heart tissue, Sp2/O cells

**IP:** mouse skeletal muscle tissue,

**IHC:** human pancreas tissue,

**IF:** HepG2 cells,

## 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

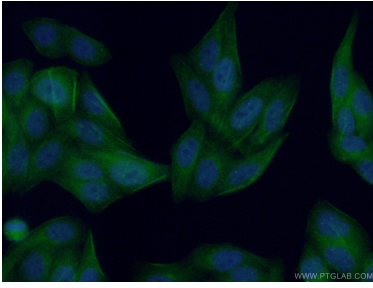
For technical support and original validation data for this product please contact:

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

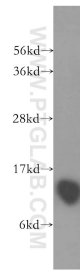
E: proteintech@ptglab.com  
W: ptglab.com

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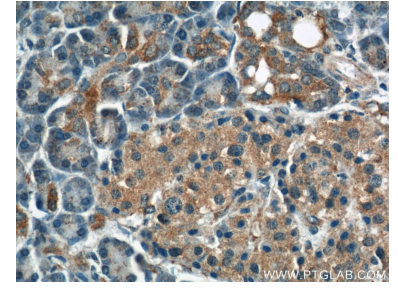
## Selected Validation Data



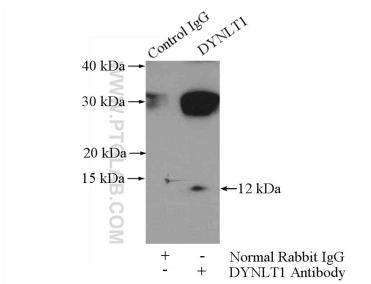
Immunofluorescent analysis of (4% PFA) fixed HepG2 cells using 11954-1-AP (DYNL1 antibody) at dilution of 1:50 and Alexa Fluor 488-conjugated AffiniPure Goat Anti-Rabbit IgG(H+L).



human brain tissue were subjected to SDS PAGE followed by western blot with 11954-1-AP (DYNL1 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 (DYNL1 antibody) at dilution of 1:50 (under 40x lens).



IP Result of anti-DYNL1 (IP:11954-1-AP, 4ug; Detection:11954-1-AP 1:300) with mouse skeletal muscle tissue lysate 3600ug.