

For Research Use Only

# CLTB Polyclonal antibody

Catalog Number: 10455-1-AP

Featured Product

4 Publications



## Basic Information

### Catalog Number:

10455-1-AP

### Size:

1000 ug/ml

### Source:

Rabbit

### Isotype:

IgG

### Immunogen Catalog Number:

AG0707

### GenBank Accession Number:

BC006457

### GeneID (NCBI):

1212

### UNIPROT ID:

P09497

### Full Name:

clathrin, light chain (Lcb)

### Calculated MW:

23 kDa

### Observed MW:

32-38 kDa

### Purification Method:

Antigen affinity purification

### Recommended Dilutions:

WB 1:500-1:2000

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

IHC 1:50-1:500

IF/ICC 1:50-1:500

## Applications

### Tested Applications:

WB, IHC, IF/ICC, IP, ELISA

### Cited Applications:

WB, IF

### 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** : mouse thymus tissue, human brain tissue, mouse brain tissue, PC-3 cells

**IP** : mouse brain tissue,

**IHC** : human skin cancer tissue,

**IF/ICC** : HeLa cells, HEK-293 cells

## Background Information

Clathrin is the major protein of the polyhedral coat of coated pits and vesicles which entrap specific macromolecules during receptor-mediated endocytosis. The clathrin molecule has a triskelion shape. Each clathrin triskelion is composed of three identical heavy chains (180 kDa) and three light chains of two types, LCA (CLTA) and LCB (CLTB) (30-40 kDa). The light chain subunits are thought to regulate the formation or disassembly of clathrin coats. (PMID: 2445759; 8374173; 3563513)

## Notable Publications

| Author             | Pubmed ID | Journal                  | Application |
|--------------------|-----------|--------------------------|-------------|
| Lisa Redlingshöfer | 32907943  | Proc Natl Acad Sci U S A | WB          |
| Hongyun Liu        | 35862701  | J Virol                  | WB          |
| Shuang Wu          | 27540116  | Proc Natl Acad Sci U S A | 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:

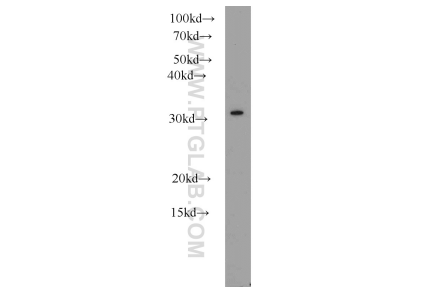
T: 4006900926

E: [Proteintech-CN@ptglab.com](mailto:Proteintech-CN@ptglab.com)

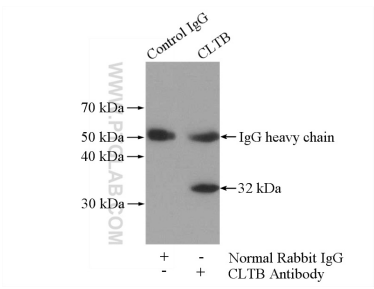
W: [ptgcn.com](http://ptgcn.com)

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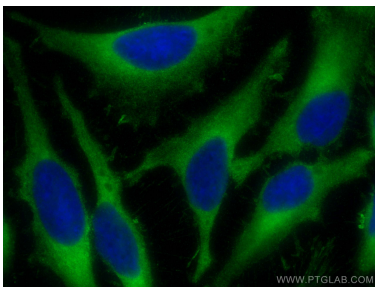
Selected Validation Data



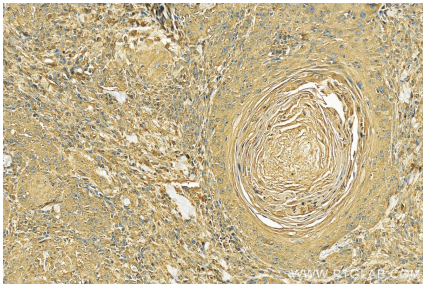
mouse thymus tissue were subjected to SDS PAGE followed by western blot with 10455-1-AP (CLTB antibody) at dilution of 1:1000 incubated at room temperature for 1.5 hours.



IP result of anti-CLTB (IP:10455-1-AP, 4ug; Detection:10455-1-AP 1:500) with mouse brain tissue lysate 4000ug.



Immunofluorescent analysis of (-20°C Methanol) fixed HeLa cells using CLTB antibody (10455-1-AP) at dilution of 1:200 and CoraLite®488-Conjugated AffiniPure Goat Anti-Rabbit IgG(H+L).



Immunohistochemical analysis of paraffin-embedded skin cancer slide using 10455-1-AP (CLTB antibody) at dilution of 1:200 (under 20x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).