

For Research Use Only

# CLTA Polyclonal antibody

Catalog Number: 10852-1-AP

Featured Product

22 Publications



## Basic Information

### Catalog Number:

10852-1-AP

### Size:

1000 ug/ml

### Source:

Rabbit

### Isotype:

IgG

### Immunogen Catalog Number:

AG1299

### GenBank Accession Number:

BC019287

### GeneID (NCBI):

1211

### UNIPROT ID:

P09496

### Full Name:

clathrin, light chain (Lca)

### Calculated MW:

27 kDa

### Observed MW:

35-38 kDa

### Purification Method:

Antigen affinity purification

### Recommended Dilutions:

WB 1:5000-1:50000

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

IHC 1:50-1:500

IF/ICC 1:250-1:1000

## Applications

### Tested Applications:

WB, IHC, IF/ICC, IP, ELISA

### Cited Applications:

WB, IHC, IF, IP

### Species Specificity:

human, mouse, rat

### Cited Species:

human, mouse, rat, canine, monkey

**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, mouse brain tissue, K-562 cells, Raji cells, C2C12 cells, C6 cells, PC-12 cells

**IP** : mouse brain tissue,

**IHC** : human breast cancer tissue,

**IF/ICC** : HepG2 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
Mitsuo Osga	34495704	Mol Biol Cell	WB,IF
Medendorp Klaas K	21152103	PLoS One	WB,IF,IP
Xianfang Meng	22660985	Neurogenetics	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

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

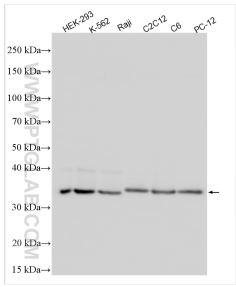
T: 4006900926

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

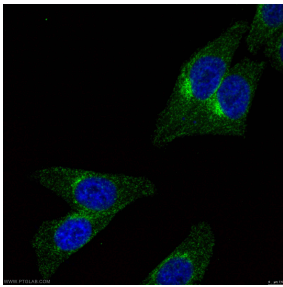
W: [ptgcn.com](http://ptgcn.com)

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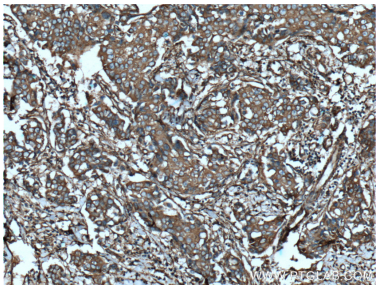
Selected Validation Data



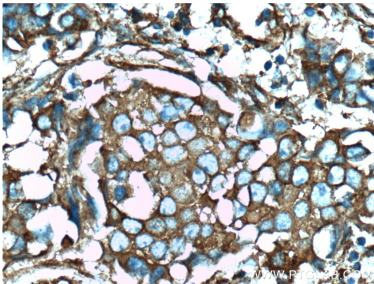
Various lysates were subjected to SDS PAGE followed by western blot with 10852-1-AP (CLTA antibody) at dilution of 1:10000 incubated at room temperature for 1.5 hours.



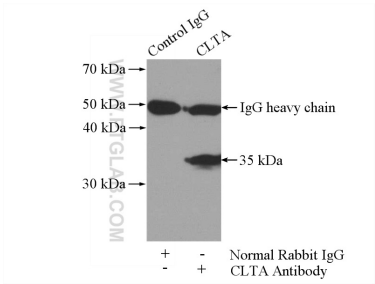
Immunofluorescent analysis of (4% PFA) fixed HepG2 cells using 10852-1-AP (CLTA antibody) at dilution of 1:500 and Alexa Fluor 488-Conjugated AffiniPure Goat Anti-Rabbit IgG(H+L).



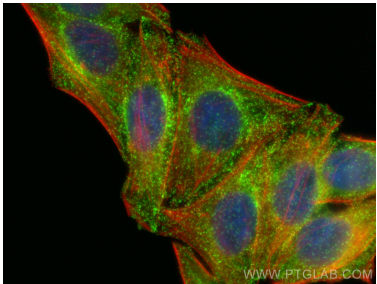
Immunohistochemical analysis of paraffin-embedded human breast cancer tissue slide using 10852-1-AP (CLTA Antibody) at dilution of 1:200 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunohistochemical analysis of paraffin-embedded human breast cancer tissue slide using 10852-1-AP (CLTA Antibody) at dilution of 1:200 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



IP result of anti-CLTA (IP:10852-1-AP, 4ug; Detection:10852-1-AP 1:800) with mouse brain tissue lysate 4000ug.



Immunofluorescent analysis of (4% PFA) fixed HepG2 cells using CLTA antibody (10852-1-AP) at dilution of 1:400 and Multi-rAb CoraLite® Plus 488-Goat Anti-Rabbit Recombinant Secondary Antibody (H+L) (RGAR002), CL594-phalloidin (red).