

**CLTC Antibody (Center)**  
**Affinity Purified Rabbit Polyclonal Antibody (Pab)**  
**Catalog # AP5911c**

**Specification**

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**CLTC Antibody (Center) - Product Information**

Application	WB, IHC-P, FC,E
Primary Accession	<a href="#">Q00610</a>
Other Accession	<a href="#">P11442</a> , <a href="#">Q68FD5</a> , <a href="#">P49951</a> , <a href="#">NP_004850.1</a>
Reactivity	Human
Predicted	Bovine, Mouse, Rat
Host	Rabbit
Clonality	Polyclonal
Isotype	Rabbit IgG
Calculated MW	191615
Antigen Region	1019-1048

**CLTC Antibody (Center) - Additional Information**

**Gene ID** 1213

**Other Names**

Clathrin heavy chain 1, Clathrin heavy chain on chromosome 17, CLH-17, CLTC, CLH17, CLTCL2, KIAA0034

**Target/Specificity**

This CLTC antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 1019-1048 amino acids from the Central region of human CLTC.

**Dilution**

WB~~1:1000  
IHC-P~~1:50~100  
FC~~1:10~50

**Format**

Purified polyclonal antibody supplied in PBS with 0.09% (W/V) sodium azide. This antibody is purified through a protein A column, followed by peptide affinity purification.

**Storage**

Maintain refrigerated at 2-8°C for up to 2 weeks. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.

**Precautions**

CLTC Antibody (Center) is for research use only and not for use in diagnostic or therapeutic procedures.

**CLTC Antibody (Center) - Protein Information**

## Name CLH1

**Function** Clathrin is the major protein of the polyhedral coat of coated pits and vesicles. Two different adapter protein complexes link the clathrin lattice either to the plasma membrane or to the trans- Golgi network. Acts as a component of the TACC3/ch-TOG/clathrin complex proposed to contribute to stabilization of kinetochore fibers of the mitotic spindle by acting as inter-microtubule bridge (PubMed:[15858577](#), PubMed:[16968737](#), PubMed:[21297582](#)). The TACC3/ch-TOG/clathrin complex is required for the maintenance of kinetochore fiber tension (PubMed:[23532825](#)). Plays a role in early autophagosome formation (PubMed:[20639872](#)). Interaction with DNAJC6 mediates the recruitment of HSPA8 to the clathrin lattice and creates local destabilization of the lattice promoting uncoating (By similarity).

## Cellular Location

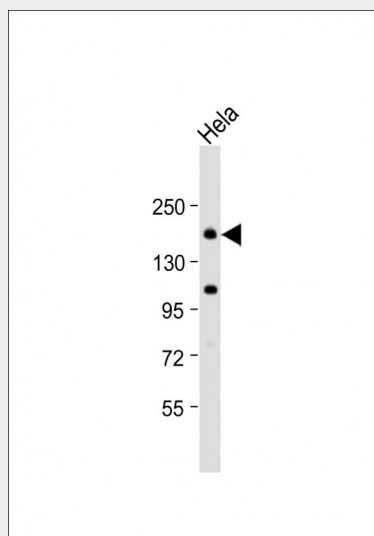
Cytoplasmic vesicle membrane; Peripheral membrane protein; Cytoplasmic side. Membrane, coated pit; Peripheral membrane protein; Cytoplasmic side. Melanosome. Cytoplasm, cytoskeleton, spindle. Note=Cytoplasmic face of coated pits and vesicles. Identified by mass spectrometry in melanosome fractions from stage I to stage IV. In complex with TACC3 and CKAP5 (forming the TACC3/ch-TOG/clathrin complex) localized to inter-microtubule bridges in mitotic spindles.

## CLTC Antibody (Center) - Protocols

Provided below are standard protocols that you may find useful for product applications.

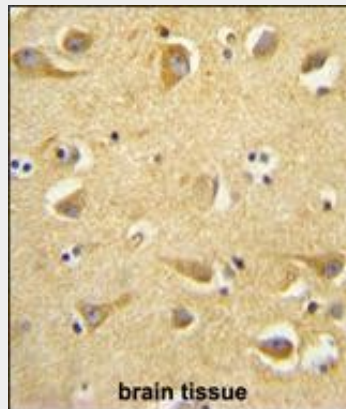
- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

## CLTC Antibody (Center) - Images

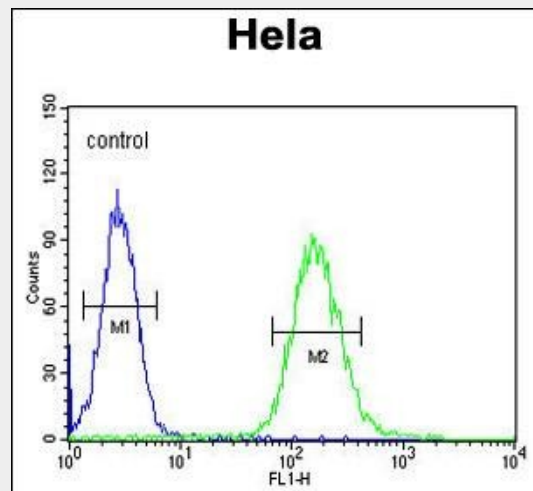


Anti-CLTC Antibody (Center) at 1:1000 dilution + HeLa whole cell lysate Lysates/proteins at 20  $\mu$ g per lane. Secondary Goat Anti-Rabbit IgG, (H+L), Peroxidase conjugated at 1/10000 dilution.

Predicted band size : 192 kDa Blocking/Dilution buffer: 5% NFDM/TBST.



CLTC antibody (Center) (Cat. #AP5911c) immunohistochemistry analysis in formalin fixed and paraffin embedded human brain tissue followed by peroxidase conjugation of the secondary antibody and DAB staining. This data demonstrates the use of the CLTC antibody (Center) for immunohistochemistry. Clinical relevance has not been evaluated.



CLTC Antibody (Center) (Cat. #AP5911c) flow cytometric analysis of Hela cells (right histogram) compared to a negative control cell (left histogram). FITC-conjugated goat-anti-rabbit secondary antibodies were used for the analysis.