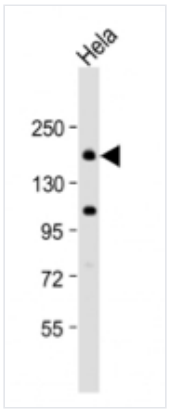
CLTC Antibody – Rabbit Polyclonal

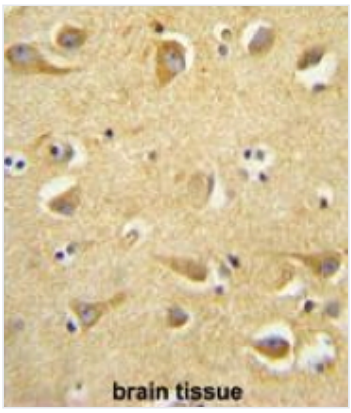
PRODUCT OVERVIEW

Product Name	CLTC, Polyclonal Antibody
Full Product Name	CLTC, ID (CLTC, CLH17, CLTCL2, KIAA0034, Clathrin heavy chain 1, Clathrin heavy chain on chromosome 17) (FITC)
Product Gene Name	anti-CLTC antibody
Product Synonym Names	CLTC; CLH17; CLTCL2; KIAA0034; Clathrin heavy chain 1; Clathrin heavy chain on chromosome 17
Clonality	Polyclonal
Isotype	IgG
Host	Rabbit
Species Reactivity	Human
Form/Format	Supplied as a liquid in PBS, pH 7.2. No preservative added. Labeled with Fluorescein Isothiocyanate (FITC).
Purity/Purification	Purified by Protein A and Peptide Affinity Chromatography.
Specificity	Recognizes human CLTC.
Preparation and Storage	Store product at 4 degree C if to be used immediately within two weeks. For long-term storage, aliquot to avoid repeated freezing and thawing and store at -20 degree C. Aliquots are stable at -20 degree C for 12 months after receipt. Dilute required amount only prior to immediate use. Further dilutions can be made in assay buffer. Caution: FITC conjugates are sensitive to light. For maximum recovery of product, centrifuge the original vial after thawing and prior to removing the cap.
Molecular Weight	191615 MW
OMIM	D21260 mRNA
3D Structure	ModBase 3D Structure for Q00610
Immunogen	KLH-conjugated synthetic peptide mapping to a fragment of residues within amino acids 1019-1048 in the central region of human CLTC, UniProt Accession #NP_004850.1; Q00610; P11442. Species sequence homology: bovine, mouse and rat
Conjugate	FITC
Note	Preservative Free
Special Handling	Light sensitive
Product Categories/Family for anti-CLTC antibody	Antibodies; Clathrin
Applications Tested/Suitable for anti-CLTC antibody	Flow Cytometry (FC/FACS), FLISA, Immunohistochemistry (IHC), Western Blot (WB)
Application Notes for anti-CLTC antibody	FC/FACS: 1:10-50 FLISA: 1:1,000 IHC: 1:50-100 WB: 1:100-500 Applications are based on unconjugated antibody.
Related Product Information for anti-CLTC antibody	MBS6286979 is an antibody targeting CLTC. Also known as CLTC, ID (CLTC, CLH17, CLTCL2, KIAA0034, Clathrin heavy chain 1, Clathrin heavy chain on chromosome 17) (FITC). Reactive in Human. Host: Rabbit.

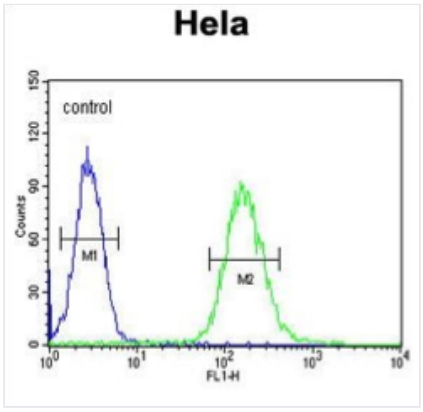
Other Notes	Small volumes of anti-CLTC antibody vial(s) may occasionally become entrapped in the seal of the product vial during shipment and storage. If necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the container`s cap. Certain products may require to ship with dry ice and additional dry ice fee may apply.



Western Blot (WB) of anti-CLTC antibody
Western Blot analysis in Hela whole cell lysate (20ug/lane) using MBS642928 (1:1000). Secondary IgG, (H+L) (HRP) goat anti-rabbit at 1:10,000 dilution. Predicted band size: 192kD Blocking/Dilution buffer: 5% NFDM/TBST.



Immunohistochemistry (IHC) of anti-CLTC antibody
Immunohistochemistry analysis in formalin fixed and paraffin embedded human brain tissue using MBS642928 followed by peroxidase conjugation of the secondary antibody and DAB staining. This data demonstrates the use of MBS642928 for immunohistochemistry.



Flow Cytometry (FC/FACS) of anti-CLTC antibody
Flow Cytometry analysis of Hela cells using MBS642928 (right histogram) compared to a negative control cell (left histogram). FITC-conjugated goat-anti-rabbit secondary antibodies were used for the analysis.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for CLTC. It may not necessarily be applicable to this product.

NCBI GI #	4758012
NCBI GeneID	1213
NCBI Accession #	NP_004850.1
UniProt Primary Accession #	Q00610
UniProt Secondary Accession #	P11442; Q68FD5; P49951
UniProt Related Accession #	Q00610
GenBank Nucleotide #	NM_004859.3
NCBI Official Full Name	clathrin heavy chain 1 isoform 1
NCBI Official Synonym Full Names	clathrin heavy chain
NCBI Official Symbol	CLTC
NCBI Official Synonym Symbols	Hc; CHC; CHC17; CLH-17; CLTCL2

UniProt Protein Name	Clathrin heavy chain 1
UniProt Synonym Protein Names	Clathrin heavy chain on chromosome 17; CLH-17
Protein Family	Clathrin
UniProt Gene Name	CLTC
UniProt Synonym Gene Names	CLH17; CLTCL2; KIAA0034; CLH-17
NCBI Protein Information	clathrin heavy chain 1
NCBI Summary for CLTC	Clathrin is a major protein component of the cytoplasmic face of intracellular organelles, called coated vesicles and coated pits. These specialized organelles are involved in the intracellular trafficking of receptors and endocytosis of a variety of macromolecules. The basic subunit of the clathrin coat is composed of three heavy chains and three light chains. [provided by RefSeq, Jul 2008]
UniProt Comments for CLTC	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 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).
Research Articles on CLTC	**1.** this study shows that clathrin, including the clathrin population associated to internal vesicles, controls lymphocyte migration by regulating actin rearrangements occurring at the leading age
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