

Rabbit Clathrin heavy chain/CLTC Polyclonal Antibody | anti-CLTC antibody

Anti-Clathrin heavy chain/CLTC Antibody

CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA19270	Rabbit	Human, Mouse, Rat	Western Blot, Immunohistochemistry, Immunocytochemistry, Immunofluorescence, Flow Cytometry, Functional Assay, ELISA

PRODUCT SYNONYMS

Clathrin heavy chain/CLTC; Polyclonal Antibody; Anti-Clathrin heavy chain/CLTC Antibody; CLTC; CLH17; CLTCL2; KIAA0034; Clathrin heavy chain 1; Clathrin heavy chain on chromosome 17; CLH-17; clathrin heavy chain; anti-CLTC antibody

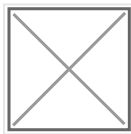
PRODUCT SPECIFICATIONS

Host	Rabbit
Reactivity	Human, Mouse, Rat
Clonality	Polyclonal
Isotype	Rabbit IgG
Specificity	Rabbit IgG polyclonal antibody for Clathrin heavy chain/CLTC detection.
Purity/Purification	Immunogen affinity purified.
Form/Format	Lyophilized. Each vial contains 4mg Trehalose, 0.9mg NaCl, 0.2mg Na ₂ HPO ₄ , 0.01mg NaN ₃ .
Applicable Applications for anti-CLTC antibody	WB (Western Blot), IHC (Immunohistochemistry), ICC (Immunocytochemistry), IF (Immunofluorescence), FCM/FACS (Flow Cytometry), ELISA (Direct ELISA)
Application Notes	WB: 0.1-0.25ug/ml Human, Mouse, Rat IHC-P: 2-5ug/ml Human, Mouse, Rat ICC/IF: 5ug/ml Human FC/FACS/FCM: 1-3ug/1x10 ⁶ cells Human, Mouse, Rat Direct ELISA: 0.1-0.5ug/ml Human
Immunogen	E Coli-derived human Clathrin heavy chain/CLTC recombinant protein (Position: R967-Q1668).
Reconstitution	Add 0.2ml of distilled water will yield a concentration of 500ug/ml.
Recommended Detection Systems	Recommended Detection Systems
Preparation and Storage	Store at -20 degree C for one year. After reconstitution, at 4 degree C for one month. It can also be aliquotted and stored frozen at -20 degree C for a longer time. Avoid repeated freezing and thawing.



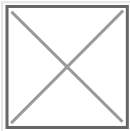
FCM (Flow Cytometry)

Figure 8. Flow Cytometry analysis of C6 cells using anti-Clathrin heavy chain/CLTC antibody (AAA19270).Overlay histogram showing C6 cells stained with AAA19270 (Blue line). The cells were blocked with 10% normal goat serum. And then incubated with rabbit anti-Clathrin heavy chain/CLTC Antibody (AAA19270,1μg/1x106 cells) for 30 min at 20 degree C. DyLight®488 conjugated goat anti-rabbit IgG (5-10μg/1x106 cells) was used as secondary antibody for 30 minutes at 20 degree C. Isotype control antibody (Green line) was rabbit IgG (1μg/1x106) used under the same conditions. Unlabelled sample (Red line) was also used as a control.



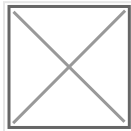
FCM (Flow Cytometry)

Figure 7. Flow Cytometry analysis of HEPA1-6 cells using anti-Clathrin heavy chain/CLTC antibody (AAA19270).Overlay histogram showing HEPA1-6 cells stained with AAA19270 (Blue line). The cells were blocked with 10% normal goat serum. And then incubated with rabbit anti-Clathrin heavy chain/CLTC Antibody (AAA19270,1μg/1x106 cells) for 30 min at 20 degree C. DyLight®488 conjugated goat anti-rabbit IgG (5-10μg/1x106 cells) was used as secondary antibody for 30 minutes at 20 degree C. Isotype control antibody (Green line) was rabbit IgG (1μg/1x106) used under the same conditions. Unlabelled sample (Red line) was also used as a control.



FCM (Flow Cytometry)

Figure 6. Flow Cytometry analysis of U87 cells using anti-Clathrin heavy chain/CLTC antibody (AAA19270).Overlay histogram showing U87 cells stained with AAA19270 (Blue line). The cells were blocked with 10% normal goat serum. And then incubated with rabbit anti-Clathrin heavy chain/CLTC Antibody (AAA19270,1μg/1x106 cells) for 30 min at 20 degree C. DyLight®488 conjugated goat anti-rabbit IgG (5-10μg/1x106 cells) was used as secondary antibody for 30 minutes at 20 degree C. Isotype control antibody (Green line) was rabbit IgG (1μg/1x106) used under the same conditions. Unlabelled sample (Red line) was also used as a control.



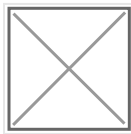
IF (Immunofluorescence)

Figure 5. IF analysis of Clathrin heavy chain/CLTC using anti-Clathrin heavy chain/CLTC antibody (AAA19270).Clathrin heavy chain/CLTC was detected in immunocytochemical section of U20S cells. Enzyme antigen retrieval was performed using IHC enzyme antigen retrieval reagent for 15 mins. The cells were blocked with 10% goat serum. And then incubated with 5μg/mL rabbit anti-Clathrin heavy chain/CLTC Antibody (AAA19270) overnight at 4 degree C. DyLight®488 Conjugated Goat Anti-Rabbit IgG was used as secondary antibody at 1:100 dilution and incubated for 30 minutes at 37 degree C. The section was counterstained with DAPI. Visualize using a fluorescence microscope and filter sets appropriate for the label used.



IHC (Immunohistochemistry)

Figure 4. IHC analysis of Clathrin heavy chain/CLTC using anti-Clathrin heavy chain/CLTC antibody (AAA19270).Clathrin heavy chain/CLTC was detected in paraffin-embedded section of rat intestine tissue. Heat mediated antigen retrieval was performed in EDTA buffer (pH8. 0, epitope retrieval solution). The tissue section was blocked with 10% goat serum. The tissue section was then incubated with 2μg/ml rabbit anti-Clathrin heavy chain/CLTC Antibody (AAA19270) overnight at 4 degree C. Biotinylated goat anti-rabbit IgG was used as secondary antibody and incubated for 30 minutes at 37 degree C. The tissue section was developed using Streptavidin-Biotin-Complex (SABC) (Catalog # with DAB as the chromogen.



IHC (Immunohistochemistry)

Figure 3. IHC analysis of Clathrin heavy chain/CLTC using anti-Clathrin heavy chain/CLTC antibody (AAA19270).Clathrin heavy chain/CLTC was detected in paraffin-embedded section of mouse intestine tissue. Heat mediated antigen retrieval was performed in EDTA buffer (pH8. 0, epitope retrieval solution). The tissue section was blocked with 10% goat serum. The tissue section was then incubated with 2μg/ml rabbit anti-Clathrin heavy chain/CLTC Antibody (AAA19270) overnight at 4 degree C. Biotinylated goat anti-rabbit IgG was used as secondary antibody and incubated for 30 minutes at 37 degree C. The tissue section was developed using Streptavidin-Biotin-Complex (SABC) (Catalog # with DAB as the chromogen.

ADDITIONAL INFORMATION

Related Product Information for anti-CLTC antibody	Clathrin heavy chain 1 is a protein that in humans is encoded by the CLTC gene. 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.
References	<div>1. Argani, P., Lui, M. Y., Couturier, J., Bouvier, R., Fournet, J. -C., Ladanyi, M. A novel CLTC-TFE3 gene fusion in pediatric renal adenocarcinoma with t(X;17)(p11. 2;q23). Oncogene 22: 5374-5378, 2003.</div> <div>2. Cools, J., Wlodarska, I., Somers, R., Mentens, N., Pedeutour, F., Maes, B., De Wolf-Peeters, C., Pauwels, P., Hagemeijer, A., Marynen, P. Identification of novel fusion partners of ALK, the anaplastic lymphoma kinase, in anaplastic large-cell lymphoma and inflammatory myofibroblastic tumor. Genes Chromosomes Cancer 34: 354-362, 2002.</div> <div>3. Deborde, S., Perret, E., Gravotta, D., Deora, A., Salvarezza, S., Schreiner, R., Rodriguez-Boulan, E. Clathrin is a key regulator of basolateral polarity. Nature 452: 719-723, 2008.</div>

NCBI AND UNIPROT INFORMATION

NCBI GI #	4758012
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NCBI GeneID	1213
NCBI Accession #	NP_004850.1
NCBI GenBank Nucleotide #	NM_004859.3
UniProt Accession #	Q00610; Q6N0A0; Q86TF2; D3DU00
Molecular Weight	191615 MW
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
NCBI Protein Information	clathrin heavy chain 1
UniProt Protein Name	Clathrin heavy chain 1
UniProt Gene Name	CLTC
UniProt Synonym Gene Names	CLH17; CLTCL2; KIAA0034; CLH-17

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

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Online datasheet: <https://stage.aaabiotech.com/polyclonal/clathrin-heavy-chain-cltc-antibody-western-blot-immunohistochemistry-immunocytochemistry-immunofluorescence-flow-cytometry-direct-elisa-elisa/19270>