

Mouse Clathrin heavy chain/CLTC Monoclonal Antibody | anti-CLTC antibody

Anti-Clathrin heavy chain/CLTC Antibody (monoclonal, 6D3)

CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA125927	Mouse	Human, Mouse, Rat	Flow Cytometry, Functional Assay, Immunohistochemistry, Western Blot

PRODUCT SYNONYMS

Clathrin heavy chain/CLTC; Monoclonal Antibody; Anti-Clathrin heavy chain/CLTC Antibody (monoclonal; 6D3); CLTC; CLH17; CLTCL2; KIAA0034; Clathrin heavy chain 1; Clathrin heavy chain on chromosome 17; CLH-17; clathrin heavy chain; anti-CLTC antibody

PRODUCT SPECIFICATIONS

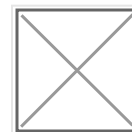
Host	Mouse
Reactivity	Human, Mouse, Rat
Clonality	Monoclonal
Isotype	Mouse IgG2b
Clone Number	6D3
Specificity	Mouse IgG monoclonal antibody for Clathrin heavy chain/CLTC1 detection.
Purity/Purification	Immunogen affinity purified.
Form/Format	Lyophilized. Each vial contains 4mg Trehalose, 0.9mg NaCl and 0.2mg Na2HPO4.
Applicable Applications for anti-CLTC antibody	FCM/FACS (Flow Cytometry), IHC (Immunohistochemistry), WB (Western Blot)
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.

IMAGES



FCM/FACS (Flow Cytometry)

Figure 5. Flow Cytometry analysis of HepG2 cells using anti-Clathrin heavy chain/CLTC antibody (AAA125927). Overlay histogram showing HepG2 cells stained with AAA125927 (Blue line). The cells were blocked with 10% normal goat serum. And then incubated with mouse anti- Clathrin heavy chain/CLTC Antibody (AAA125927, 1μg/1x106 cells) for 30 min at 20 degree C. DyLight®488 conjugated goat anti-mouse IgG (BA1126, 5-10μg/1x106 cells) was used as secondary antibody for 30 minutes at 20 degree C. Isotype control antibody (Green line) was mouse IgG (1μg/1x106) used under the same conditions. Unlabelled sample (Red line) was also used as a control.



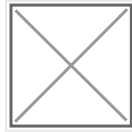
IHC (Immunohistochemistry)

Figure 4. IHC analysis of Clathrin heavy chain/CLTC using anti-Clathrin heavy chain/CLTC antibody (AAA125927). Clathrin heavy chain/CLTC was detected in paraffin-embedded section of human tonsil 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 mouse anti-Clathrin heavy chain/CLTC Antibody (AAA125927) overnight at 4 degree C. Biotinylated goat anti-mouse 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) with DAB as the chromogen.



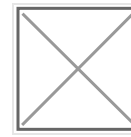
IHC (Immunohistochemisry)

Figure 3. IHC analysis of Clathrin heavy chain/CLTC using anti-Clathrin heavy chain/CLTC antibody (AAA125927).Clathrin heavy chain/CLTC was detected in paraffin-embedded section of human renal carcinoma 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 mouse anti-Clathrin heavy chain/CLTC Antibody (AAA125927) overnight at 4 degree C. Biotinylated goat anti-mouse 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) with DAB as the chromogen.



WB (Western Blot)

Figure 1. Western blot analysis of Clathrin heavy chain/CLTC using anti-Clathrin heavy chain/CLTC antibody (AAA125927).Electrophoresis was performed on a 5-20% SDS-PAGE gel at 70V (Stacking gel) / 90V (Resolving gel) for 2-3 hours. The sample well of each lane was loaded with 30ug of sample under reducing conditions.Lane 1: human Hela whole cell lysatesLane 2: human A431 whole cell lysatesLane 3: rat brain tissue lysatesLane 4: mouse brain tissue lysates.After Electrophoresis, proteins were transferred to a Nitrocellulose membrane at 150mA for 50-90 minutes. Blocked the membrane with 5% Non-fat Milk/ TBS for 1. 5 hour at RT. The membrane was incubated with mouse anti- Clathrin heavy chain/CLTC antigen affinity purified monoclonal antibody (Catalog # AAA125927) at 0. 5 μg/mL overnight at 4 degree C, then washed with TBS-0. 1%Tween 3 times with 5 minutes each and probed with a goat anti-mouse IgG-HRP secondary antibody at a dilution of 1:10000 for 1. 5 hour at RT. The signal is developed using an Enhanced Chemiluminescent detection (ECL) kit with Tanon 5200 system. A specific band was detected for Clathrin heavy chain/CLTC at approximately 180KD. The expected band size for Clathrin heavy chain/CLTC is at 180KD.



IHC (Immunohiostchemistry)

Figure 2. IHC analysis of Clathrin heavy chain/CLTC using anti-Clathrin heavy chain/CLTC antibody (AAA125927).Clathrin heavy chain/CLTC was detected in paraffin-embedded section of human pancreatic cancer 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 mouse anti-Clathrin heavy chain/CLTC Antibody (AAA125927) overnight at 4 degree C. Biotinylated goat anti-mouse 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) 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	<ol style="list-style-type: none">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, 2003.2. 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, 2002.3. 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.

NCBI AND UNIPROT INFORMATION

NCBI GI #	4758012
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/monoclonal/clathrin-heavy-chain-cltc-antibody-clone-6d3-flow-cytometry-immunohistochemistry-western-blot-elisa/125927>