BOSTER BIOLOGICAL TECHNOLOGY
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# Anti-Clathrin heavy chain/CLTC Antibody Picoband® (monoclonal, 6D3)

**Catalog Number:** M03134-2

## About CLTC

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.

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## Overview

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|---|---|
| Product Name | Anti-Clathrin heavy chain/CLTC Antibody Picoband® (monoclonal, 6D3) |
| Reactive Species | Human, Mouse, Rat |
| Description | Boster Bio Anti-Clathrin heavy chain/CLTC Antibody Picoband® (monoclonal, 6D3) catalog # M03134-2. Tested in Flow Cytometry, IHC, WB applications. This antibody reacts with Human, Mouse, Rat. The brand Picoband indicates this is a premium antibody that guarantees superior quality, high affinity, and strong signals with minimal background in Western blot applications. Only our best-performing antibodies are designated as Picoband, ensuring unmatched performance. |
| Application | Flow Cytometry, IHC, WB |
| Clonality | Monoclonal 6D3 |
| Formulation | Each vial contains 4mg Trehalose, 0.9mg NaCl and 0.2mg Na2HPO4. |
| Storage Instructions | Store at -20˚C for one year from date of receipt. After reconstitution, at 4˚C for one month. It can also be aliquotted and stored frozen at -20˚C for six months. Avoid repeated freeze-thaw cycles. |
| Host | Mouse |
| Uniprot ID | Q00610 |

## Technical Details

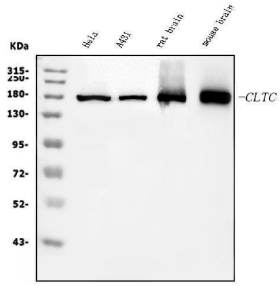
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| Immunogen | E.coli-derived human Clathrin heavy chain/CLTC recombinant protein (Position: R967-Q1668). |
| Recommended Detection Systems | Boster recommends Enhanced Chemiluminescent Kit with anti-Mouse IgG (EK1001) for Western blot, and HRP Conjugated anti-Mouse IgG Super Vision Assay Kit (SV0001-1) for IHC(P). |

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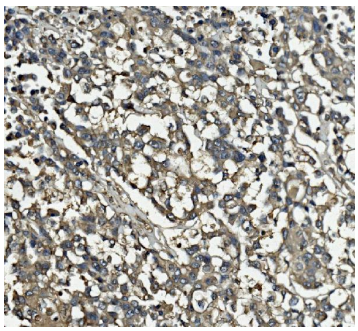
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|---|---|
| Cross Reactivity | No cross-reactivity with other proteins. |
| Isotype | Mouse IgG2b |
| Form | Lyophilized |
| Concentration | Adding 0.2 ml of distilled water will yield a concentration of 500 ug/ml. |
| Purification | Immunogen affinity purified. |
| Suggested Dilutions | Western blot, 0.25-0.5ug/ml, Human, Mouse, Rat<br>Immunohistochemistry (Paraffin-embedded Section), 2-5ug/ml, Human<br>Flow Cytometry (Fixed), 1-3ug/1x$10^6$ cells, Human<br><br>Note: For flow cytometry (FCM), suitable for fixed cells only. Not suitable for FACS or surface flow cytometry using live cells. |

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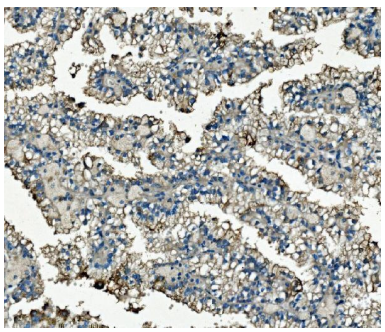
# Anti-Clathrin heavy chain/CLTC Antibody Picoband® (monoclonal, 6D3) (M03134-2) Images




Western blot analysis of Clathrin heavy chain/CLTC using anti-Clathrin heavy chain/CLTC antibody (M03134-2). 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 lysates, Lane 2: human A431 whole cell lysates, Lane 3: rat brain tissue lysates, Lane 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 # M03134-2) at 0.5 ug/mL overnight at 4°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 (Catalog # EK1001) 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.

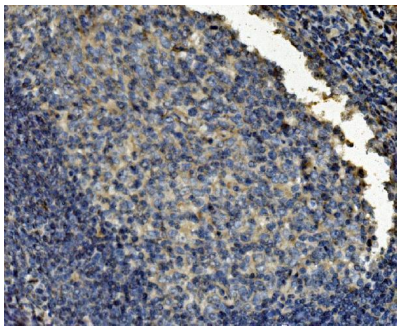


IHC analysis of Clathrin heavy chain/CLTC using anti-Clathrin heavy chain/CLTC antibody (M03134-2). Clathrin heavy chain/CLTC was detected in paraffin-embedded section of human pancreatic cancer tissue. Heat mediated antigen retrieval was performed in EDTA buffer (pH8.0, epitope retrieval solution). The tissue section was blocked with 10% goat serum. The tissue section was then incubated with 2ug/ml mouse anti-Clathrin heavy chain/CLTC Antibody (M03134-2) overnight at 4°C. Biotinylated goat anti-mouse IgG was used as secondary antibody and incubated for 30 minutes at 37°C. The tissue section was developed using Strepavidin-Biotin-Complex (SABC) (Catalog # SA1021) with DAB as the chromogen.

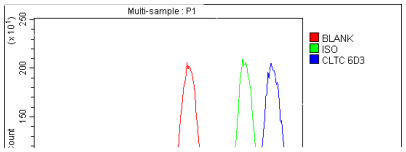


IHC analysis of Clathrin heavy chain/CLTC using anti-Clathrin heavy chain/CLTC antibody (M03134-2). Clathrin heavy chain/CLTC was detected in paraffin-embedded section of human renal carcinoma tissue. Heat mediated antigen retrieval was performed in EDTA buffer (pH8.0, epitope retrieval solution). The tissue section was blocked with 10% goat serum. The tissue section was then incubated with 2ug/ml mouse anti-Clathrin heavy chain/CLTC Antibody (M03134-2) overnight at 4°C. Biotinylated goat anti-mouse IgG was used as secondary antibody and incubated for 30 minutes at 37°C. The tissue section was developed using Strepavidin-Biotin-Complex (SABC) (Catalog # SA1021) with DAB as the chromogen.

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IHC analysis of Clathrin heavy chain/CLTC using anti-Clathrin heavy chain/CLTC antibody (M03134-2). 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 2ug/ml mouse anti-Clathrin heavy chain/CLTC Antibody (M03134-2) overnight at 4°C. Biotinylated goat anti-mouse IgG was used as secondary antibody and incubated for 30 minutes at 37°C. The tissue section was developed using Strepavidin-Biotin-Complex (SABC) (Catalog # SA1021) with DAB as the chromogen.




Flow Cytometry analysis of HepG2 cells using anti-Clathrin heavy chain/CLTC antibody (M03134-2). Overlay histogram showing HepG2 cells stained with M03134-2 (Blue line). To facilitate intracellular staining, cells were fixed with 4% paraformaldehyde and permeabilized with permeabilization buffer. The cells were blocked with 10% normal goat serum. And then incubated with mouse anti- Clathrin heavy chain/CLTC Antibody (M03134-2, 1ug/1x106 cells) for 30 min at 20°C. DyLight®488 conjugated goat anti-mouse IgG (BA1126, 5-10ug/1x106 cells) was used as secondary antibody for 30 minutes at 20°C. Isotype control antibody (Green line) was mouse IgG (1ug/1x106) used under the same conditions. Unlabelled sample without incubation with primary antibody and secondary antibody (Red line) was used as a blank control.

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

For Research Use Only. Not for use in diagnostic procedures.