Product datasheet

Anti-CLTC Antibody

Catalog Number: *A03134-1*

BOSTER
antibody and ELISA experts
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Basic Information

Product Name	Anti-CLTC Antibody
Gene Name	CLTC
Source	Rabbit
Clonality	Polyclonal
Isotype	IgG
Species Reactivity	human, mouse, rat
Tested Application	WB, IHC, ICC/IF, FCM, ELISA
Contents	500 ug/ml antibody with PBS, 0.02% NaN3, 1 mg/ml BSA and 50% glycerol.
Immunogen	E. coli-derived human Clathrin heavy chain/CLTC recombinant protein (Position: R967-Q1668). Human CLTC shares 99.7% amino acid (aa) sequence identity with both mouse and rat CLTC.
Concentration	500 ug/ml
Purification	Immunogen affinity purified.
Observed MW	192 kDa
Dilution Ratios	Western blot (WB): 1:500-2000 Immunohistochemistry (IHC): 1:50-400 Immunocytochemistry/Immunofluorescence (ICC/IF): 1:50-400 Flow Cytometry (Fixed): 1:50-200 Enzyme linked immunosorbent assay (ELISA): 1:100-1000 (Boiling the paraffin sections in 10mM citrate buffer,pH6.0,or PH8.0 EDTA repair liquid for 20 mins is required for the staining of formalin/paraffin sections.) Optimal working dilutions must be determined by end user.

Storage

12 months from date of receipt，-20℃ as supplied.

Background Information

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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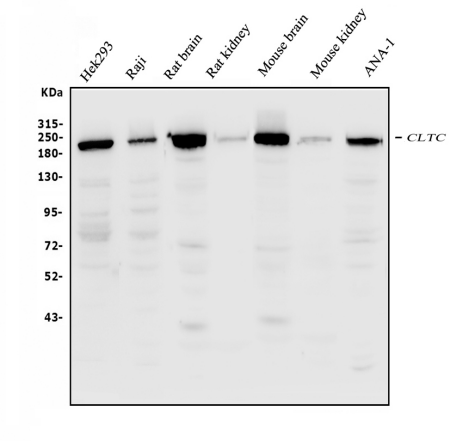
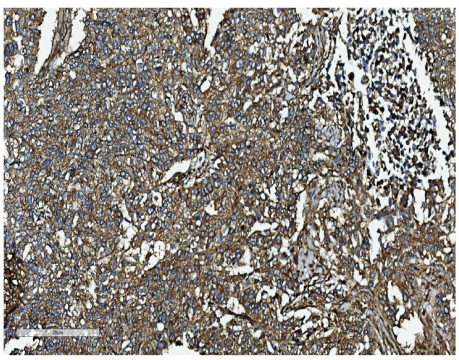
Reference

Anti-CLTC Antibody 被引用在1文献中。

Selected Validation Data



Western blot analysis of CLTC using anti-CLTC antibody (A03134-1). The sample well of each lane was loaded with 30 ug of sample under reducing conditions.
Lane 1: human HEK293 whole cell lysates,
Lane 2: human Raji whole cell lysates,
Lane 3: Rat brain tissue lysates,
Lane 4: Rat kidney tissue lysates,
Lane 5: Mouse brain tissue lysates,
Lane 6: Mouse kidney tissue lysates,
Lane 7: Mouse ANA-1 whole cell lysates.
After electrophoresis, proteins were transferred to a membrane. Then the membrane was incubated with rabbit anti-CLTC antigen affinity purified polyclonal antibody (A03134-1) at a dilution of 1:1000 and probed with a goat anti-rabbit IgG-HRP secondary antibody (Catalog # BA1054). The signal is developed using ECL Plus Western Blotting Substrate (Catalog # AR1197). A specific band was detected for CLTC at approximately 192 kDa. The expected band size for CLTC is at 192 kDa.



IHC analysis of CLTC using anti-CLTC antibody (A03134-1).
CLTC was detected in a paraffin-embedded section of human lung cancer tissue. Biotinylated goat anti-rabbit IgG was used as secondary antibody. The tissue section was incubated with rabbit anti-CLTC Antibody (A03134-1) at a dilution of 1:200 and developed using Strepavidin-Biotin-Complex (SABC) (Catalog # SA1022) with DAB (Catalog # AR1027) as the chromogen.

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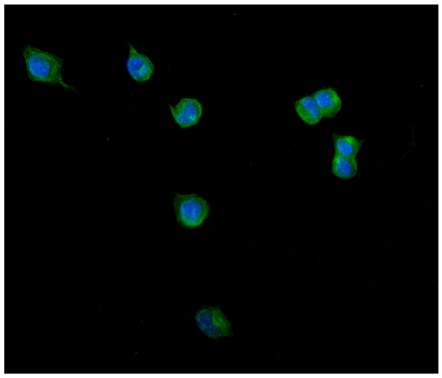
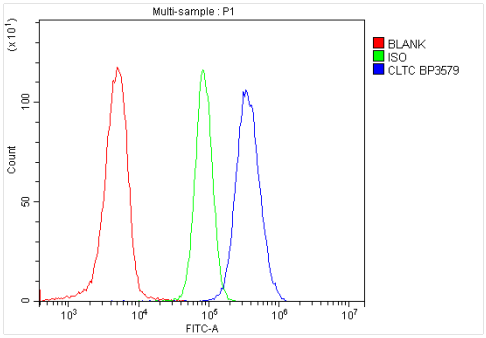


ICC/IF analysis of CLTC using anti-CLTC antibody (A03134-1).
CLTC was detected in an immunocytochemical section of U2OS cells. The section was incubated with rabbit anti-CLTC Antibody (A03134-1) at a dilution of 1:100. Fluoro488 Conjugated Goat Anti-Rabbit IgG (Green) (Catalog # BA1127) was used as secondary antibody. The section was counterstained with DAPI (Catalog # AR1176) (Blue).



Flow Cytometry analysis of C6 cells using anti-CLTC antibody (A03134-1).
Overlay histogram showing C6 cells stained with A03134-1 (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 rabbit anti-CLTC Antibody (A03134-1) at 1:100 dilution for 30 min at 20°C. Fluoro488 conjugated goat anti-rabbit IgG (BA1127) was used as secondary antibody at 1:100 dilution for 30 minutes at 20°C. Isotype control antibody (Green line) was rabbit IgG at 1:100 dilution used under the same conditions. Unlabelled sample without incubation with primary antibody and secondary antibody (Red line) was used as a blank control.