

Basic Information

Product Name	Anti-CLTC Antibody (Clone#6D3)	
Gene Name	CLTC	
Source	Mouse	
Clonality	Monoclonal	
Isotype	IgG2b	
Species Reactivity	human, mouse, rat	
Tested Application	WB, IHC, FCM	
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).	
Concentration	500 ug/ml	
Purification	protein G purified.	
Observed MW	192 kDa	
Dilution Ratios	Western blot (WB):	1:500-2000
	Immunohistochemistry (IHC):	1:50-400
	Flow Cytometry (Fixed):	1:50-200
	(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.	

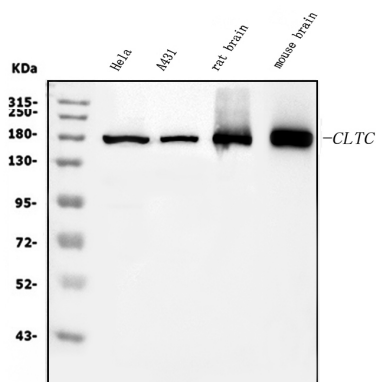
Storage

12 months from date of receipt, -20°C 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.

Selected Validation Data



Western blot analysis of CLTC using anti-CLTC antibody (M03134-2).

The sample well of each lane was loaded with 30 ug 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 membrane.

Then the membrane was incubated with mouse anti-CLTC antigen

affinity purified monoclonal antibody (M03134-2) at a dilution of

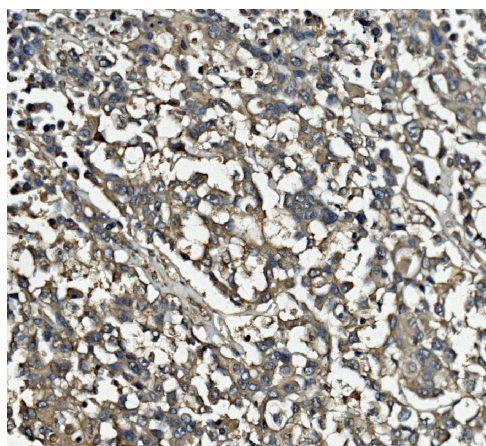
1:1000 and probed with a goat anti-mouse IgG-HRP secondary

antibody (Catalog # BA1050). 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 (M03134-2).

CLTC was detected in a paraffin-embedded section of human

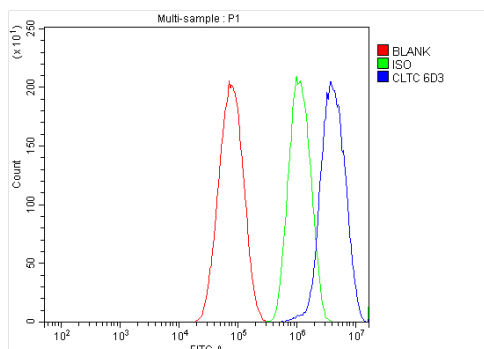
pancreatic cancer tissue. Biotinylated goat anti-mouse IgG was used

as secondary antibody. The tissue section was incubated with mouse

anti-CLTC Antibody (M03134-2) at a dilution of 1:200 and developed

using Streptavidin-Biotin-Complex (SABC) (Catalog # SA1021) with

DAB (Catalog # AR1027) as the chromogen.



Flow Cytometry analysis of HepG2 cells using anti-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-CLTC Antibody (M03134-2) at 1:100 dilution for 30 min at 20°C. Fluoro488 conjugated goat anti-mouse IgG (BA1126) was used as secondary antibody at 1:100 dilution for 30 minutes at 20°C. Isotype control antibody (Green line) was mouse 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.