10320 Camino Santa Fe, Suite G
San Diego, CA 92121
Tel: 858.875.1900 Fax: 858.875.1999

KD-Validated Anti-Clathrin Heavy Chain Rabbit Monoclonal Antibody

Rabbit monoclonal antibody
Catalog # AGI1984

Specification

KD-Validated Anti-Clathrin Heavy Chain Rabbit Monoclonal Antibody - Product Information

Application	**WB, FC, ICC**
Primary Accession	Q00610
Reactivity	**Rat, Human, Mouse**
Clonality	**Monoclonal**
Isotype	**Rabbit IgG**
Calculated MW	**Predicted, 192 kDa, observed, 192 kDa KDa**
Gene Name	**CLTC**
Aliases	**CLTC; Clathrin Heavy Chain; CLTCL; Hc; Clathrin Heavy Chain On Chromosome 17; Clathrin, Heavy Polypeptide-Like 2; Clathrin, Heavy Polypeptide (Hc); Clathrin Heavy Chain 1; CLH-17; Clathrin, Heavy Chain (Hc); Clathrin, Heavy Chain; KIAA0034; CHC17; MRD56; CLH17; CHC**
Immunogen	**A synthesized peptide derived from human Clathrin heavy chain**

KD-Validated Anti-Clathrin Heavy Chain Rabbit Monoclonal Antibody - Additional Information

Gene ID	**1213**

Other Names
Clathrin heavy chain 1, Clathrin heavy chain on chromosome 17, CLH-17, CLH1

KD-Validated Anti-Clathrin Heavy Chain Rabbit Monoclonal Antibody - Protein Information

Name CLH1

Function
Clathrin is the major protein of the polyhedral coat of coated pits and vesicles. Two different adapter protein complexes link the clathrin lattice either to the plasma membrane or to the trans-Golgi network. Acts as a component of the TACC3/ch-TOG/clathrin complex proposed to contribute to stabilization of kinetochore fibers of the mitotic spindle by acting as inter-microtubule bridge (PubMed:15858577, PubMed:16968737, PubMed:21297582). The TACC3/ch-TOG/clathrin complex is required for the maintenance of kinetochore fiber tension (PubMed:23532825). Plays a role in early autophagosome formation (PubMed:<a

href="http://www.uniprot.org/citations/20639872" target="_blank">20639872). Interaction with DNAJC6 mediates the recruitment of HSPA8 to the clathrin lattice and creates local destabilization of the lattice promoting uncoating (By similarity).

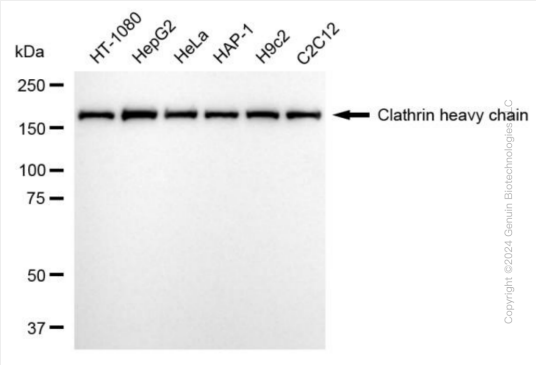
Cellular Location
Cytoplasmic vesicle membrane; Peripheral membrane protein; Cytoplasmic side. Membrane, coated pit; Peripheral membrane protein; Cytoplasmic side. Melanosome. Cytoplasm, cytoskeleton, spindle. Note=Cytoplasmic face of coated pits and vesicles. Identified by mass spectrometry in melanosome fractions from stage I to stage IV. In complex with TACC3 and CKAP5 (forming the TACC3/ch-TOG/clathrin complex) localized to inter-microtubule bridges in mitotic spindles.

KD-Validated Anti-Clathrin Heavy Chain Rabbit Monoclonal Antibody - Protocols

Provided below are standard protocols that you may find useful for product applications.

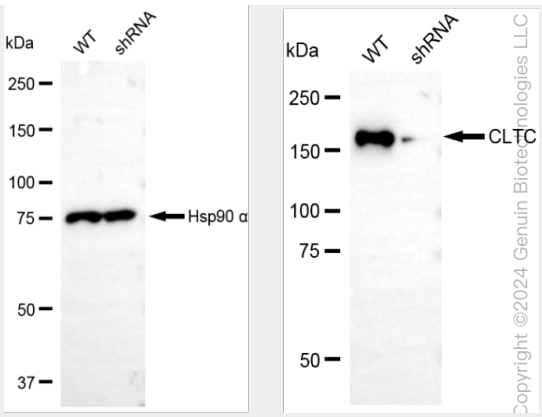
- Western Blot
- Blocking Peptides
- Dot Blot
- Immunohistochemistry
- Immunofluorescence
- Immunoprecipitation
- Flow Cytomety
- Cell Culture

KD-Validated Anti-Clathrin Heavy Chain Rabbit Monoclonal Antibody - Images

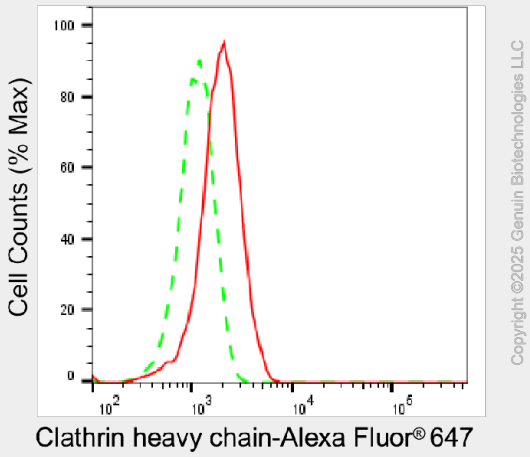


Western blotting analysis using anti-clathrin heavy chain antibody (Cat#AGI1984). Total cell lysates (30 µg) from various cell lines were loaded and separated by SDS-PAGE. The blot was incubated with anti-clathrin heavy chain antibody (Cat#AGI1984, 1:5,000) and HRP-conjugated goat anti-rabbit secondary antibody respectively.

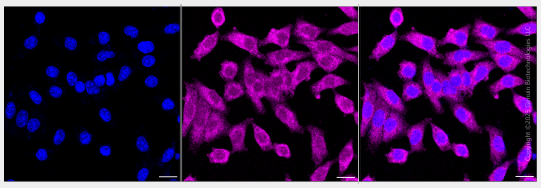
10320 Camino Santa Fe, Suite G
San Diego, CA 92121
Tel: 858.875.1900 Fax: 858.875.1999



Western blotting analysis using anti-clathrin heavy chain antibody (Cat#AGI1984). Clathrin heavy chain expression in wild-type (WT) and clathrin heavy chain (CLTC) shRNA knockdown (KD) HT-1080 cells with 20 µg of total cell lysates. Hsp90 α serves as a loading control. The blot was incubated with anti-clathrin heavy chain antibody (Cat#AGI1984, 1:5,000) and HRP-conjugated goat anti-rabbit secondary antibody respectively.



Flow cytometric analysis of Clathrin heavy chain expression in HepG2 cells using anti-Clathrin heavy chain antibody (Cat#AGI1984, 1:2,000). Green, isotype control; red, Clathrin heavy chain.



Immunocytochemical staining of HepG2 cells with anti-Clathrin heavy chain antibody (Cat#AGI1984, 1:1,000). Nuclei were stained blue with DAPI; Clathrin heavy chain was stained magenta with Alexa Fluor® 647. Images were taken using Leica stellaris 5. Protein abundance based on laser Intensity and smart gain: Medium. Scale bar, 20 µm.