ARG53919
anti-CLTC / Clathrin heavy chain antibody [BF-06]

Package: 100 µg, 50 µg
Store at: -20°C

Summary

Product Description	Mouse Monoclonal antibody [BF-06] recognizes CLTC / Clathrin heavy chain
Tested Reactivity	Hu, Ms, Rat, Bov, Pig
Tested Application	ELISA, FACS, ICC/IF, IP, WB
Specificity	The clone BF-06 recognizes clathrin heavy chain, an ubiquitously expressed 180 kDa protein involved in receptor-mediated endocytosis.
Host	Mouse
Clonality	Monoclonal
Clone	BF-06
Isotype	IgM
Target Name	CLTC / Clathrin heavy chain
Conjugation	Un-conjugated
Alternate Names	CHC17; CHC; Clathrin heavy chain 1; Hc; CLH-17; CLTCL2; Clathrin heavy chain on chromosome 17

Application Instructions

Application table

Application	Dilution
ELISA	Assay-dependent
FACS	2 - 5 µg/ml
ICC/IF	Assay-dependent
IP	Assay-dependent
WB	Assay-dependent

Application Note	* The dilutions indicate recommended starting dilutions and the optimal dilutions or concentrations should be determined by the scientist.
Positive Control	FACS: Human blood leukocytes

Properties

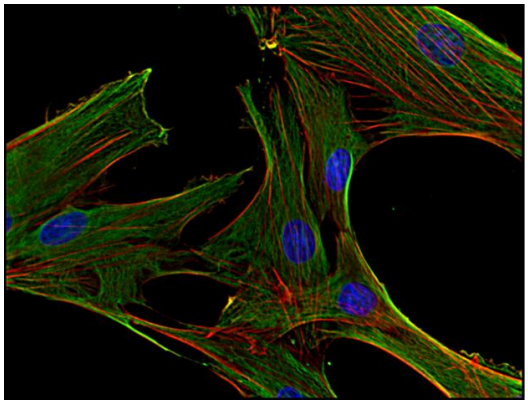
Form	Liquid
Purification	Purified from ascites by precipitation methods and ion exchange chromatography.
Purity	> 95% (by SDS-PAGE)
Buffer	TBS (pH 8.0) and 15 mM Sodium azide
Preservative	15 mM Sodium azide
Concentration	1 mg/ml

Storage instruction	For continuous use, store undiluted antibody at 2-8°C for up to a week. For long-term storage, aliquot and store at -20°C or below. Storage in frost free freezers is not recommended. Avoid repeated freeze/thaw cycles. Suggest spin the vial prior to opening. The antibody solution should be gently mixed before use.
Note	For laboratory research only, not for drug, diagnostic or other use.

Bioinformation

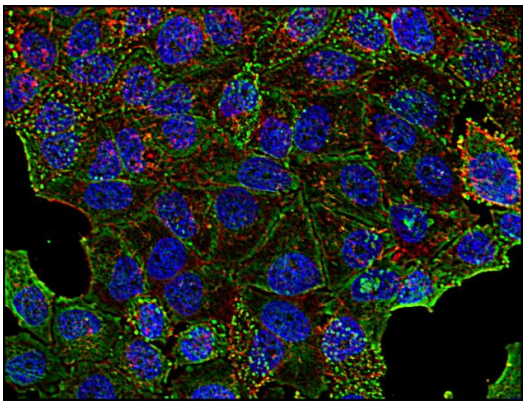
Gene Symbol	CLTC
Gene Full Name	clathrin, heavy chain (Hc)
Background	Clathrin is a submembrane protein that polymerizes into coat-like lattices, which results in membrane invagination. The basic oligomers are composed of three clathrin heavy chain (180 kDa) and three light chain (30 kDa) subunits and the process of polymerization is dynamically regulated by the light chains. Interaction of clathrin with the plasma membrane is mediated by adaptor proteins (AP1-4) specific for different cellular compartments. Another proteins, such as endophilin, epsin and amphiphysin are involved in membrane invagination and clathrin rearrangements. Finally, dynamin functions at the fission stage of clathrin-mediated endocytosis.
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. [UniProt]
Highlight	Related Antibody Duos and Panels: ARG30310 Endosome, Lysosome, Peroxisome Marker Antibody Panel (Catalase, Caveolin1, Clathrin heavy chain, LAMP1) Related products: Clathrin antibodies; Clathrin Duos / Panels; Anti-Mouse IgM secondary antibodies; Related poster download: Organelle Markers & Loading Control
Research Area	Controls and Markers antibody; Signaling Transduction antibody; Endosome Marker antibody
Calculated Mw	192 kDa

Images



ARG53919 anti-CLTC / Clathrin heavy chain antibody [BF-06] ICC/IF image

Immunofluorescence: Human primary fibroblasts stained with ARG53919 anti-CLTC / Clathrin heavy chain antibody [BF-06] (green). Actin cytoskeleton was stained with phalloidin (red) and cell nuclei stained with DAPI (blue).



ARG53919 anti-CLTC / Clathrin heavy chain antibody [BF-06] ICC/IF image

Immunofluorescence: HeLa cells stained with ARG53919 anti-CLTC / Clathrin heavy chain antibody [BF-06] (green).
Actin cytoskeleton was stained with phalloidin (red) and cell nuclei stained with DAPI (blue).