



11-526-C025

Monoclonal Antibody to Clathrin heavy chain Purified Antibody (0.025 mg)

Clone:	BF-06
Isotype:	Mouse IgM
Specificity:	The antibody BF-06 recognizes clathrin heavy chain, an ubiquitously expressed 180 kDa protein involved in receptor-mediated endocytosis.
Regulatory Status:	RUO
Species Reactivity:	Human, Porcine, Mouse, Rat, Bovine, Other not determined
Application:	Flow Cytometry Recommended dilution: 2-5 µg/ml Positive control: human blood leukocytes Immunoprecipitation Western Blotting Immunocytochemistry ELISA
Purity:	> 95% (by SDS-PAGE)
Purification:	Purified by precipitation and chromatography
Concentration:	1 mg/ml
Storage Buffer:	Stabilising Tris buffered saline (TBS) with 15 mM sodium azide, approx. pH 8.0
Storage / Stability:	Store at 2-8°C. Do not freeze. Do not use after expiration date stamped on vial label.
Expiration:	See vial label
Lot Number:	See vial label
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.
References:	*Smith CJ, Pearse BM: Clathrin: anatomy of a coat protein. Trends Cell Biol. 1999 Sep;9(9):335-8. *Szymkiewicz I, Shupliakov O, Dikic I: Cargo- and compartment-selective endocytic scaffold proteins. Biochem J. 2004 Oct 1;383(Pt 1):1-11. *Wilbur JD, Hwang PK, Brodsky FM: New faces of the familiar clathrin lattice. Traffic. 2005 Apr;6(4):346-50. *Macurek L, Zikova M, Draberova E, Draber P: Monoclonal antibody BF-06 against the heavy chain of clathrin. Folia Biol (Praha). 2003;49(6):238-40.

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