Clathrin HC (TD.1): sc-12734

**BACKGROUND**

Clathrin is a major cytosolic coat protein in pits and vesicles originating from the plasma membrane and the trans-Golgi network. In receptor-mediated endocytosis, receptor proteins are captured by Clathrin-coated vesicles. Clathrin is composed of three heavy chains and three light chains which associate non-covalently to form a triskelion structure. Clathrin heavy chain (HC) is composed of a terminal globular domain, a distal segment and a proximal segment containing a light chain binding site. The proximal segment of the Clathrin HC protein is essential for interactions between Clathrin heavy chains and light chains which result in the formation of the triskelion structure.

**REFERENCES**

Genetic locus: CLTC (human) mapping to 17q23.1; Cltc (mouse) mapping to 11 C.

**SOURCE**

Clathrin HC (TD.1) is a mouse monoclonal antibody raised against the N-terminus of Clathrin heavy chain of human origin.

**PRODUCT**

Each vial contains 200 µg IgG, kappa light chain in 1.0 ml of PBS with < 0.1% sodium azide and 0.1% gelatin.

Clathrin HC (TD.1) is available conjugated to agarose (sc-12734 AC), 500 µg/0.25 ml agarose in 1 ml, for IP; to HRP (sc-12734 HRP), 200 µg/ml, for WB, HC(P) and ELISA; to either phycoerythrin (sc-12734 PE), fluorescein (sc-12734 FITC), Alexa Fluor® 488 (sc-12734 AF488), Alexa Fluor® 546 (sc-12734 AF546), Alexa Fluor® 594 (sc-12734 AF594) or Alexa Fluor® 647 (sc-12734 AF647), 200 µg/ml, for WB (RGB), IF, HC(P) and FCM; and to either Alexa Fluor® 680 (sc-12734 AF680) or Alexa Fluor® 790 (sc-12734 AF790), 200 µg/ml, for Near-Infrared (NIR) WB, IF and FCM.

**APPLICATIONS**

Clathrin HC (TD.1) is recommended for detection of Clathrin HC of broad species origin by Western Blotting (starting dilution 1:200, dilution range 1:100-1:1000), immunoprecipitation [1-2 µg per 100-500 µg of total protein (1 ml of cell lysate)], immunofluorescence (starting dilution 1:50, dilution range 1:100-1:500) and immunohistochemistry (including paraffin-embedded sections) (starting dilution 1:50, dilution range 1:100-1:500).

Suitable for use as control antibody for Clathrin HC siRNA (h): sc-35067, Clathrin HC siRNA (m): sc-35066, Clathrin HC shRNA Plasmid (h): sc-35066-SH, Clathrin HC shRNA Plasmid (m): sc-35066-SH, Clathrin HC shRNA (h) Lentiviral Particles: sc-35067-V and Clathrin HC shRNA (m) Lentiviral Particles: sc-35066-V.

Molecular Weight of Clathrin HC: 192 kDa.

Positive Controls: HeLa whole cell lysate: sc-2200, Raji whole cell lysate: sc-364236 or KNRK whole cell lysate: sc-2214.

**STORAGE**

Store at 4°C, **“DO NOT FREEZE”**. Stable for one year from the date of shipment. Non-hazardous. No MSDS required.

**SELECT PRODUCT CITATIONS**


**PROTOCOLS**

See our web site at www.scbt.com for detailed protocols and support products.

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