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
CHROMOSOMAL LOCATION
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 IgG1 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, IHC(P) and ELISA; and to either phycoerythrin (sc-12734 PE), fluorescein (sc-12734 AF488) or Alexa Fluor® 488 (sc-12734 AF647) 200 µg/ml, for IF, IHC(P) 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 (starting dilution 1:50, dilution range 1:50-1:500) and immunohistochemistry (including paraffin-embedded sections) (starting dilution 1:50, dilution range 1:50-1:500).

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-35067-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-2210, NIH/3T3 whole cell lysate: sc-2210 or KNMR whole cell lysate: sc-2214.

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

DATA

SELECT PRODUCT CITATIONS

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