

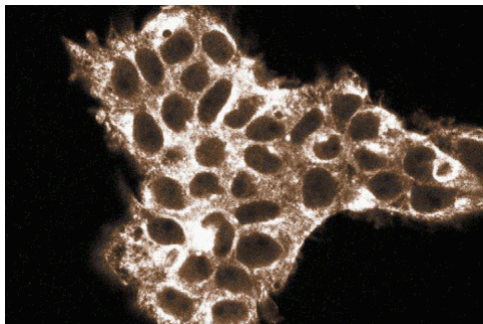
Technical Data Sheet

FITC Mouse Anti-Clathrin Heavy Chain**Product Information**

Material Number:	611784
Size:	50 µg
Concentration:	250 µg/ml
Clone:	23/Clathrin Heavy Chain
Immunogen:	Rat Clathrin Heavy Chain aa. 4-171
Isotype:	Mouse IgG1
Reactivity:	QC Testing: Human Tested in Development: Chicken, Dog, Mouse, Rat
Target MW:	180 kDa
Storage Buffer:	Aqueous buffered solution containing BSA, glycerol, and ≤0.09% sodium azide.

Description

Clathrin is the major protein component in the coat formed around pits and vesicles involved in receptor-mediated endocytosis. Clathrin forms a non-covalently bound triskelion structure composed of three heavy chains (192 kDa each) and three light chains (23-25 kDa each). Each leg of the triskelion structure contains one heavy and one light chain. The three heavy chains forming the triskelion structure are attached at their respective proximal ends like spokes on a wheel. Clathrin heavy chain is composed of a terminal globular domain, a distal segment containing several areas sensitive to enzymatic cleavage, and a proximal segment which contains a light chain binding site. The proximal and distal domains are connected by a joint segment at which there is a sharp bend in the heavy chains of fully-assembled triskelia. Although the calculated molecular weight is 192 kDa, clathrin heavy chain migrates at approximately 180 kDa.



Immunofluorescent staining of A431 cells with 5 µg/ml FITC conjugated anti-clathrin heavy chain antibody.

Preparation and Storage

The monoclonal antibody was purified from tissue culture supernatant or ascites by affinity chromatography.

The antibody was conjugated with FITC under optimum conditions, and unreacted FITC was removed.

Store undiluted at -20°C.

Application Notes**Application**

Immunofluorescence	Routinely Tested
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Product Notices

1. Since applications vary, each investigator should titrate the reagent to obtain optimal results.
2. Please refer to www.bdbiosciences.com/pharmingen/protocols for technical protocols.
3. Caution: Sodium azide yields highly toxic hydrazoic acid under acidic conditions. Dilute azide compounds in running water before discarding to avoid accumulation of potentially explosive deposits in plumbing.
4. Source of all serum proteins is from USDA inspected abattoirs located in the United States.

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References

- Kirchhausen T, Harrison SC, Chow EP, et al. Clathrin heavy chain: molecular cloning and complete primary structure. *Proc Natl Acad Sci U S A*. 1987; 84(24):8805-8809.(Biology)
- Liu SH, Wong ML, Craik CS, Brodsky FM. Regulation of clathrin assembly and trimerization defined using recombinant triskelion hubs. *Cell*. 1995; 83(2):257-267. (Biology)