



3050 Spruce Street  
Saint Louis, Missouri 63103 USA  
Telephone (800) 325-5832 (314) 771-5765  
Fax (314) 286-7828  
email: techserv@sial.com  
sigma-aldrich.com

## Product Information

### ANTI-CLATHRIN

Developed in Goat  
Delipidized, Whole Antiserum

Product No. **C 8034**

#### Product Description

Anti-Clathrin is developed in goat using clathrin isolated from bovine brain coated vesicles as the immunogen. The antiserum has been treated to remove lipoproteins.

When used in immunofluorescent assays, the antiserum shows typical punctate labeling near the cell surface. The perinuclear reticulum on monolayer human foreskin fibroblasts is also labeled. In an immunoblot assay using purified triskelions, Goat Anti-Clathrin specifically stains the heavy chain band of clathrin. For localization of the heavy chain band in total cell extracts additional purification (affinity purification) of the antiserum is recommended. This antiserum shows a wide interspecies cross-reactivity.

Clathrin is the main constituent of the polygonal network that forms the coat of coated vesicles and coated pits. It is widely assumed that coated vesicles mediate the selective transfer of molecules and membrane components between specific membranous organelles within cells. Clathrin forms a three-legged structure termed a triskelion which contains three clathrin heavy chains (molecular weight 180,000 daltons per chain) and three non-covalently bound light chains having molecular weights of 30,000-40,000 daltons per chain. Although the term clathrin was originally used to designate the heavy chain component of triskelions, clathrin is now used to refer to the entire triskelion protein molecule.

Goat Anti-Clathrin may be used in studies of receptor mediated endocytosis and in the role of various cell surface receptors. It may be used for immunocytochemical localization of clathrin (triskelions) in cultured cells using immunofluorescent or electron microscopy.

#### Reagents

Goat Anti-Clathrin is supplied as a liquid containing 15 mM sodium azide as preservative.

#### Precautions and Disclaimer

Due to the sodium azide content a material safety data sheet (MSDS) for this product has been sent to the attention of the safety officer of your institution. Consult the MSDS for information regarding hazards and safe handling practices.

#### Product Profile

A minimum working dilution of 1:20 was determined by indirect immunofluorescent labeling of cultured human foreskin fibroblasts.

In order to obtain best results, it is recommended that each individual user determine their optimum working dilution by titration assay.

This goat antiserum was maintained at pH 5.0 for 40 minutes to meet USDA requirements.

#### Storage

For continuous use, store at 2-8 °C for a maximum of one month. For extended storage, the solution may be frozen in working aliquots. Repeated freezing and thawing is not recommended. Storage in "frost-free" freezers is not recommended. If slight turbidity occurs upon prolonged storage, clarify the solution by centrifugation before use.

Pcs12/99