



## Product Information

**Product No. C-6542**  
**Monoclonal Anti-Caldesmon**  
Mouse Ascites Fluid  
Clone CALD-5

**Lot** 059F4833

Monoclonal Anti-Caldesmon (mouse IgG1 isotype) is derived from the hybridoma produced by the fusion of mouse myeloma cells and splenocytes from an immunized mouse. Turkey gizzard caldesmon was used as the immunogen. The isotype is determined using Sigma ImmunoType™ Kit (Sigma Stock No. ISO-1) and by a double diffusion immunoassay using Mouse Monoclonal Antibody Isotyping Reagents (Sigma Stock No. ISO-2). The product is provided as ascites fluid with 0.1% sodium azide (see MSDS)\* as a preservative.

### Specificity

Monoclonal anti-Caldesmon is directed against an epitope located on the calmodulin non-binding part of the molecule. The antibody localizes the high molecular weight form of caldesmon from chicken fibroblasts when used in immunoblotting. By indirect immunofluorescence, Monoclonal Anti-Caldesmon stains frozen tissue sections from chicken, turkey, and human.

### Working Dilution

A working dilution of 1:100 was determined by an immunoblot assay using a chicken gizzard extract and immunoperoxidase labeling.

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

### Description

Caldesmon is an actin interacting and calmodulin binding protein found in smooth muscle and other cell types. Caldesmon occurs in both a high molecular weight (120-150 kD) and a low molecular weight (71-80 kD) form, depending on the tissue in which it is located. Caldesmon plays a major role in the regulation of smooth muscle and non-muscle contractile events.

### Uses

Monoclonal anti-Caldesmon may be used for the study of the involvement of caldesmon in contraction, cell movement, shape change, exocytosis and endocytosis.

### Storage

For continuous use, store at 0-5°C. For extended storage, solution may be frozen in working aliquots. Storage in "frost-free" freezers is **not** recommended. Repeated freezing and thawing is **not** recommended. If slight turbidity occurs upon prolonged storage, clarify by centrifugation before use.

\*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.