



Product Information

Product No. C-6292
Monoclonal Anti-Caldesmon
Mouse Ascites Fluid
Clone CALD-8

Lot 041H4854

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 by diffusion assay using immunoglobulin and subclass specific antisera. 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 pig stomach, chicken or turkey gizzard, and the low molecular weight form of caldesmon from chicken fibroblasts when used in an immunoblot technique.

By indirect immunofluorescence monoclonal anti-caldesmon stains frozen tissue sections from chicken, turkey, rabbit, guinea pig and human tissue preparations.

Working Dilution

A working dilution of 1:400 was determined by an immunoblot assay using a pig stomach caldesmon 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.

suitability of the product for its particular use. See reverse side of invoice or packing slip for additional terms and conditions of sale.
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