



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

MONOCLONAL ANTI-CALDESMON

Clone CALD-8

Mouse Ascites Fluid

Product Number **C 6292**

Product Description

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.

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 kDa) and a low molecular weight (71-80 kDa) 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.

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.

Reagents

The product is provided as ascites fluid with 0.1% sodium azide as a 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.

Storage/Stability

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.

Product Profile

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

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.

JWM/KMR 04/02

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