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Product Information

Monoclonal Anti-N-Cadherin/A-CAM

Clone GC-4

Mouse Ascites Fluid

Product No. **C 2542**

Product Description

Monoclonal Anti-N-Cadherin/A-CAM, also known as A Cell Adhesion Molecule, (mouse IgG1 isotype) is derived from the hybridoma produced by the fusion of mouse myeloma cells and splenocytes from an immunized mouse. Affinity purified chicken heart A-CAM 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).

Monoclonal Anti-N-Cadherin/A-CAM is specific for a polypeptide (135 kDa), isolated from a freshly prepared extract of rat or chicken cardiac muscle, when assayed by immunoblotting. This antibody reacts with the N-terminal portion of the extracellular domain of A-CAM. It inhibits adherens junction formation and disrupts existing junctions of cultured lens cells. This antibody reacts with the A-CAM molecule in tissues and cells from human, chicken, rat, mouse, and rabbit.²

Monoclonal Anti-N-Cadherin/A-CAM may be used for the localization of a 135 kDa receptor of the intercellular adherens junction in immunofluorescent microscopy, electron microscopy, and immunoblotting. This antibody can also be used to study the mechanism of adhesion and interaction of cultured cells and cells in tissues.

Monoclonal Anti-N-Cadherin/A-CAM stains a large variety of intercellular junctions formed by chicken fibroblastic and epithelial cells in culture. In adult mammals, the antibody stains predominantly heart and lens tissue and also stains a large variety of embryonic tissue. By double labeling, this antibody appears to localize vinculin and actin-rich intercellular contacts and is absent from cellular matrix attachment sites.

Reagent

Monoclonal Anti-N-Cadherin/A-CAM is supplied as ascites fluid containing 15 mM sodium azide.

Precautions

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 2-8 °C for up to one month. For extended storage, solution may be frozen in working aliquots. Repeated freezing and thawing is **not** recommended. If slight turbidity occurs upon prolonged storage, clarify by centrifugation before use.

Product Profile

A minimum working dilution of 1:100 is determined by indirect immunofluorescent labeling of frozen sections of chicken cardiac muscle.

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

References

1. Volk, T., and Geiger, B., EMBOJ., **3**, 2249 (1984).
2. Volk, T., et al., Develop. Biol., **139**, 314 (1990).

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