

Product Information

Monoclonal Anti-N-Cadherin, clone GC-4

produced in mouse, ascites fluid

Catalog Number **C2542**

Synonym: Anti-A-CAM

Product Description

Monoclonal Anti-N-Cadherin, 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 by a double diffusion immunoassay using Mouse Monoclonal Antibody Isotyping Reagents, Catalog Number ISO2.

Monoclonal Anti-N-Cadherin 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

Supplied as ascites fluid containing 15 mM sodium azide.

Precautions

This product is for R&D use only, not for drug, household, or other uses. Please consult the Material Safety Data Sheet 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

Immunohistochemistry: a minimum working dilution of 1:100 is determined using frozen sections of chicken cardiac muscle.

Immunoblotting: a minimum working dilution of 1:100 is determined using chicken or rat cardiac muscle.

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

References

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

DS,KAA,PHC 09/12-1