Monoclonal Anti-N-Cadherin antibody produced in mouse
close GC-4, purified from hybridoma cell culture

Product Number C3865

Synonym: Anti-A-CAM

Product Description
Monoclonal Anti-N-Cadherin (mouse IgG1 isotype) is
derived from the GC-4 hybridoma produced by the
fusion of mouse myeloma cells and splenocytes from
BALB/c mice immunized with affinity purified chicken
heart A-CAM.1 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 the
N-Cadherin. The antibody reacts with the N-terminal
half of the extracellular domain of N-Cadherin.1, 2 It
recognizes a polypeptide of 135 kDa isolated from a
freshly prepared extract chicken cardiac muscle by
immunoblotting. This antibody can work as a
neutralizing antibody that can inhibit adherens junction
formation,3 colony formation, cell adhesion, interaction
between bone marrow hematopoietic cells,4 and
cytoskeleton formation.5 Anti-N-Cadherin Mouse
Monoclonal reacts with the N-Cadherin molecule from
human,4, 5 monkey,6 rabbit, rat,7 mouse,7 and
chicken.1-3 The antibody may be used in various
immunochemical techniques including
immunohistochemistry, immunocytochemistry,3, 6
electron microscopy, immunoblotting,8 and FACS
analysis.5, 9

N-Cadherin, like other member of the cadherin family, is found to be involved in embryonic
development, tissue formation and adhesion. In
cancer, disruption in the proper regulation of the
cadherin proteins can lead to invasion and
metastasis.10-12

Reagent
Supplied in 0.01 M phosphate buffered saline,
pH 7.4, 0.2 μm filtered.

Antibody Concentration: 2 –2.5 mg/ml

Precautions and Disclaimer
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 sterile at 2-8 °C for up
to one month. For extended storage, freeze in
sterile working aliquots. Repeated freezing and
thawing, or storage in "frost-free" freezers, is not
recommended. If slight turbidity occurs upon
prolonged storage, clarify the solution by
centrifugation before use. Working dilution
samples should be discarded if not used within 12
hours.

Product Profile
Immunoblotting: a working antibody concentration
of 10-20 μg/ml is recommended using chicken
cardiac muscle or COS-7 cell extracts.

Immunohistochemistry: a working antibody
concentration of 10-20 μg/ml is recommended
using rat cardiac muscle frozen sections.

Note: In order to obtain the best results using
various techniques and preparations, we
recommend determining the optimal working
concentration by titration.
References