

**Product No. C-9672**  
**Lot 116H4842**

**Monoclonal Anti-N CAM (Neural Cell Adhesion Molecule)**  
Mouse Ascites Fluid  
Clone NCAM-OB11

Monoclonal Anti-N-CAM (mouse IgG1 isotype) is derived from the hybridoma produced by the fusion of mouse myeloma cells and splenocytes from an immunized mouse. A growth cone enriched plasma membrane fraction from E17 rat forebrain 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). The product is provided as ascites fluid with 0.1% sodium azide (see MSDS)\* as a preservative.

**Specificity**

Monoclonal Anti-N-CAM localizes the high molecular weight isoform of N-CAM (neural cell adhesion molecule) in human and several other mammalian species. The antibody shows a strong reaction to N-CAM A/N-CAM 180, however it also recognizes N-CAM B/N-CAM 140. In an immunoblot, the product reacts with polysialated N-CAM in embryonic material. Breakdown products of N-CAM may be stained; they appear as bands lower than 100 kD on the immunoblot.

**Description**

Neural cell adhesion molecule (N-CAM), the best characterized CAM, exists in adult brain as a family of sialoglycoproteins of molecular weights 180 kD, 140 kD and 120 kD, which arise from alternative splicing of mRNA transcribed from a single gene. N-CAMs are believed to be involved in cell-cell inter-

actions and probably play an important role in embryogenesis and development. Immunocytochemical data indicate that in the adult, N-CAM is expressed mainly in cells of the nervous system. There are indications that N-CAM may be expressed by non-neural cells in the adult, as it has been found in studies of various embryonic developmental stages.

**Titer:** 1:100

The antibody titer was determined by immunoblotting using freshly prepared extract from newborn and adult rat brain.

In order to obtain best results in different cell or tissue preparations, it is recommended that each individual user determine their optimum working dilution by titration assay.

**Storage**

For continuous use, store at 2-8°C. 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.

\*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.