



Product Information Sheet

Monoclonal Anti-Neural Cell Adhesion Molecule, *NCAM*

Catalogue No. MA1068

Lot No. 08A12

Clone: IML-43

Ig type: mouse IgG1

Size: 100µg/vial

Specificity

Human, rat.

No cross reactivity with other proteins.

Recommended application

Western blot

Immunocytochemistry

Immunogen

Growth cone enriched plasma membrane fraction from E17rat forebrain.

Purification

Purified by the goat anti-mouse IgG affinity chromatography.

Application

Western blot

At 4µg/ml with the appropriate system to detect NCAM in cells and tissues.

Immunocytochemistry

Suitable

Other applications have not been tested.

Optimal dilutions should be determined by end user.

Formulation

Lyophilized from 1.2% sodium acetate, with 2mg BSA and 0.01mg NaN₃ as preservative.

Reconstitution

1.2% sodium acetate or neutral PBS. If 1ml of PBS is used, the antibody concentration will be 100µg/ml.

Storage

At -20°C for one year. After reconstitution, at 4°C for one month. It can also be aliquotted and stored frozen at -20°C for longer time.

To reorder contact us at:

Antagene, Inc.

Toll Free: 1(866)964-2589

email: Info@antageneinc.com

BACKGROUND

The neural cell adhesion molecule appears on early embryonic cells and is important in the formation of cell collectives and their boundaries at sites of morphogenesis. Later in development it is found on various differentiated tissues and is a major CAM mediating adhesion among neurons and between neurons and muscle. NCAM shares many features with immunoglobulins and is considered a member of the immunoglobulin superfamily. NCAM gene is mapped to 11q23.1.

REFERENCE

1. Cunningham, B. A.; Hemperly, J. J.; Murray, B. A.; Prediger, E. A.; Brackenbury, R.; Edelman, G. M. : Neural cell adhesion molecule: structure, immunoglobulin-like domains, cell surface modulation, and alternative RNA splicing. *Science* 236: 799-806, 1987.
- 2 D'Eustachio, P.; Owens, G. C.; Edelman, G. M.; Cunningham, B. A. : Chromosomal location of the gene encoding the neural cell adhesion molecule (N-CAM) in the mouse. *Proc. Nat. Acad. Sci.* 82: 7631-7635, 1985.
- 3 . Nguyen, C.; Mattei, M. G.; Goridis, C.; Mattei, J. F.; Jordan, B. R. : Localization of the human N-CAM gene to chromosome 11 by in situ hybridization with a murine N-CAM cDNA probe. (Abstract) *Cytogenet. Cell Genet.* 40: 713 only, 1985.