



Product Information Sheet

Monoclonal Anti-N-Cadherin

Catalogue No. MA1067

Lot No. 08A12

Clone: NC-17

Ig type: mouse IgG1

Size: 100µg/vial

Specificity

Human, mouse, rat, rabbit, chicken.
No cross reactivity with other proteins.

Recommended application

Western blot

Immunohistochemistry(F)

Immunogen

Affinity purified chicken heart A-CAM.

Purification

Purified by the goat anti-mouse IgG affinity chromatography.

Application

Western blot

At 2µg/ml with the appropriate system to detect N-cadherin in cells and tissues.

Immunohistochemistry(F)

At 4µg/ml to detect N-cadherin in formalin or acetone fixed tissues.

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:

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BACKGROUND

N-cadherin (NCAD) is a member of the cadherin cell-cell adhesion receptor family that includes P-, E-, and R-cadherin and liver cell adhesion molecule (L-CAM). N-Cadherin,, also known as Cadherin-2, encodes a 907-amino acid protein that includes a 159-amino acid signal sequence. Human and mouse nucleotide sequences are 96% identical. Mouse Ncad gene consists of 16 exons dispersed over more than 200 kb of genomic DNA. Human N-cadherin gene contains 16 exons and its sequence is highly similar to both the mouse NCAD gene (including the large first and second introns) and other cadherin genes. N-cadherin is mapped to 18q11.2. Cadherin regulates dendritic spine morphogenesis.

REFERENCE

- 1 Miyatani, S.; Copeland, N. G.; Gilbert, D. J.; Jenkins, N. A.; Takeichi, M. : Genomic structure and chromosomal mapping of the mouse N-cadherin gene. *Proc. Nat. Acad. Sci.* 89: 8443-8447, 1992.
- 2 Walsh, F. S.; Barton, C. H.; Putt, W.; Moore, S. E.; Kelsell, D.; Spurr, N.; Goodfellow, P. N. : N-cadherin gene maps to human chromosome 18 and is not linked to the E-cadherin gene. *J. Neurochem.* 55: 805-812, 1990.
- 3 Togashi, H.; Abe, K.; Mizoguchi, A.; Takaoka, K.; Chisaka, O.; Takeichi, M. : Cadherin regulates dendritic spine morphogenesis. *Neuron* 35: 77-89, 2002.