



Product Information Sheet

Monoclonal Anti-Pan-Cadherin

Catalogue No. MA1079

Lot No. 08A12

Clone: PC-79

Ig type: mouse IgG1

Size: 100µg/vial

Specificity

Human, mouse, rat, rabbit, chicken, snake.

No cross reactivity with other proteins.

Recommended application

Western blot

Immunohistochemistry(P)

Immunogen

Synthetic peptide corresponding to the C-terminal amino acids of chicken N-Cadherin with an extra N-terminal lysine residue (24 amino acids) coupled to KLH.

Purification

Purified by the goat anti-mouse IgG affinity chromatography.

Application

Western blot

At 1-2µg/ml with the appropriate system to detect pan-cadherin in cells and tissues.

Immunohistochemistry(P)

At 2-4µg/ml to detect pan-cadherin in formalin fixed and paraffin embedded 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.

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BACKGROUND

Cadherins are calcium-dependent cell-cell adhesion molecules that mediate cell-cell binding in a homophilic manner. They play an important role in the growth and development of cells via the mechanisms of control of tissue architecture and the maintenance of tissue integrity. Cadherin expression is regulated spatially as well as temporally. Cadherins are thought to play an important role in development and maintenance of tissues through selective cell-cell adhesion activity and may be

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involved also in the invasion and metastasis of malignant tumors. Cadherin regulates dendritic spine morphogenesis. A cadherin gene cluster is mapped to a region of chromosome 5 subject to frequent allelic loss in carcinoma

REFERENCE

- 1 Togashi, H.; Abe, K.; Mizoguchi, A.; Takaoka, K.; Chisaka, O.; Takeichi, M. : Cadherin regulates dendritic spine morphogenesis. *Neuron* 35: 77-89, 2002.
- 2 Chalmers, I. J.; Hofler, H.; Atkinson, M. J. : Mapping of a cadherin gene cluster to a region of chromosome 5 subject to frequent allelic loss in carcinoma. *Genomics* 57: 160-163, 1999.