
anti-N-Cadherin

Cat #: HM1049
Rabbit polyclonal IgG
0.2 µg/µl, store at 4 °C

For research use only

BACKGROUND

Cadherins comprise of a family of Ca⁺⁺-dependent adhesion proteins that serve to mediate cell-cell interactions. The classical cadherin, N-, E- and P-Cadherin, consists of large extracellular domain that has a series of 5 homologous NH2 terminal repeats. The intracellular domains interact with a variety of cytoplasmic proteins, such as β-catenin, to regulate cadherin function. N-cadherin is expressed in neuronal tissues and many other tissues. It is critical to the maintenance of tissue structure and morphogenesis, including the establishment of left-right asymmetry and presynaptic to postsynaptic adhesion.

SPECIFICITY

This antibody specifically recognizes N-Cadherin of human, mouse and rat origin.

The antibody can be used in Western blotting, immunoprecipitation and immunostaining.

IMMUNOGEN

A synthetic peptide derived from extracellular domain of human N-Cadherin protein.

STORAGE

This antibody is stable for 12 months when stored at 2-8°C.

REFERENCES

1. Ranscht, B. 1994. Cadherins and catenins: interactions and functions in embryonic development. *Curr. Opin. Cell Biol.* 6: 740-746.
2. Takeichi, M. 1995. Morphogenetic roles of classic cadherins. *Curr. Opin. Cell Biol.* 7: 619-627.
3. Takeichi, M. 1988. The cadherins: cell-cell adhesion molecules controlling animal morphogenesis. *Development* 102: 639-655.
4. Hinck, L., Nathke, I.S., Papkoff, J., and Nelson, W.J. 1994. Dynamics of cadherin/catenin complex formation: novel protein interactions and pathways of complex assembly. *J. Cell Biol.* 125: 1327-1340.
5. Tanihara, H., Sano, K., Heilmann, R.L., St. John, T., and Suzuki, S. 1994. Cloning of five human cadherins clarifies characteristic features of cadherin extracellular domain and provides further evidence for two structurally different types of cadherin. *Cell Adhes. Commun.* 2: 15-26.

6. Tran, N.L., Adams, D.G., Vaillancourt, R.R. and Heilmann, R.L. (2002) Signal transduction from N-cadherin increases Bcl-2. Regulation of the phosphatidylinositol 3-kinase/Akt pathway by homophilic adhesion and actin cytoskeletal organization. *J. Biol. Chem.* 277, 32905-32914.
7. Suyama, K., Shapiro, I., Guttman, M. and Hazan, R.B. (2002) A signaling pathway leading to metastasis is controlled by N-cadherin and the FGF receptor. *Cancer Cell* 2, 301-314.

PRODUCTS FROM HYPROMATRIX, INC.**A. AntibodyArray™s:**

1. Signal Transduction AntibodyArray™
Catalog Number HM3000
2. Apoptosis AntibodyArray™
Catalog Number HM4000
3. Cell Cycle AntibodyArray™
Catalog Number HM5000

B. Staining AntibodyArray™s

1. Staining AntibodyArray™ I
Catalog Number HM8100
2. AntibodyArray Staining Apparatus
Catalog Number HM8000

C. Antibodies**1. HRP-conjugated antibodies**

- anti-phosphotyrosine
Catalog Number HM2040
- anti-phosphoserine
Catalog Number HM2070
- anti-phosphothreonine
Catalog Number HM2090

and more...

2. Primary antibodies

Hypromatrix offers a variety of high quality antibodies. For a complete list of antibodies and their specificities, please visit our web site at www.hypromatrix.com.

CONTACT

Hypromatrix, Inc.
100 Barber Avenue
Worcester, MA 01606
USA

Tel: 508-856-7900
Fax: 508-302-0748
Email: contact@hypromatrix.com
Web: www.hypromatrix.com