

Code No. 18573

**Anti-Human
N-Cadherin (224) Rabbit IgG Affinity Purify**

Volume : 100 µg

Lot No. :

Introduction : Cadherins are a family of Ca²⁺-dependent intercellular adhesion molecules. They play an important role in cell-cell interaction, histogenesis and cellular transformation, and association with the actin cytoskeleton regulates their function by a complex of cytoplasmic proteins called the catenins (α, β, γ). Among the cadherin protein family, N-cadherin function is indirectly regulated by endogenous kinases and phosphatases. Tyrosine phosphorylation of β-catenin complexed with N-cadherin results in dissociation of N-cadherin from actin. However, Thus, N-cadherin is an integral adhesion molecule whose function is regulated by protein-protein interactions and phosphorylation/dephosphorylation events.

Antigen : Synthetic peptide of a part of human N-Cadherin

Purification : Purified with antigen peptide

Form : Lyophilized product from PBS containing 1 % BSA and 0.05 % NaN₃

How to use : 1.0 mL deionized water will be added to the product (the conc. comes up 100 µg /mL)

Stability : Lyophilized product, 5 years at 2 - 8 °C
: Solution, 2 years at -20 °C

Application : This antibody can be used for immunohistochemistry with formalin fixed paraffin embedded tissues after microwave treatment (10min, 10mM citrate buffer, pH6.0). The optimal concentration is 5 µg/mL, however, the concentration should be optimized by each laboratory.

Specificity : Cross reacts with rat and mouse

Reference : 1. Shimoyama, Y., Hirohashi, S., Hirano, S., Noguchi, M., Shimosato, Y., Takeichi, M. and Abe, O. Cadherin cell-adhesion molecules in human epithelial tissues and carcinomas. *Cancer Res.*, 49: 2128-2133, 1989.
2. Hirano, S., Kimoto, N., Shimoyama, Y., Hirohashi, S. and Takeichi, M. Identification of a neural a-catenin as a key regulator of cadherin function and multicellular organization. *Cell*, 70: 293-301, 1992.
3. Shimoyama, Y., Tsujimoto, G., Kitajima, M. and Natori, M. Identification of three novel human type-II classic cadherins and frequent heterophilic interactions between different subclasses of type-II classic cadherins. *Biochem. J.*, 349: 159-167, 2000.

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