IBL Data Sheet

Code No. 18571

Anti-Human
N-Cadherin (YS) Rabbit IgG Affinity Purify

Volume : 100 µg

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 : Recombinant human N-Cadherin extracellular subdomain 1-3

Purification : Purified with antigen peptide

Form : Lyophilized product from 1% BSA in PBS containing 0.05 % NaN_3

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.
The staining intensity may be reinforced by microwave treatment.
The optimal concentration is 0.5 - 2 µg/mL, however, the concentration should be optimized by each laboratory.
: This antibody can be used for western blotting in concentration of 2 - 5 µg /mL.
: This antibody can be used for immuno-precipitation in concentration of about 3 - 5 µg/test.

Specificity : Not cross-react with other Cadherin's transfectants.

Reference :

1. Shimoyama Y, Hirohashi S, Hirano S, Noguchi M, Shimosato Y, Takeichi M, Abe O. Cadherin cell-adhesion molecules in human epithelial tissues and carcinomas. Cancer Res. 1989 Apr 15;49(8):2128-33.
2. Hirano S, Kimoto N, Shimoyama Y, Hirohashi S, Takeichi M. Identification of a neural alpha-catenin as a key regulator of cadherin function and multicellular organization. Cell. 1992 Jul 24;70(2):293-301.
3. Shimoyama Y, Tsujimoto G, Kitajima M, Natori M. Identification of three human type-II classic cadherins and frequent heterophilic interactions between different subclasses of type-II classic cadherins. Biochem J. 2000 Jul 1;349(Pt 1):159-67.

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