Product datasheet

Anti-N-Cadherin/CDH2 Antibody

Catalog Number: *BA0673*

BOSTER
antibody and ELISA experts
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Basic Information

Product Name	Anti-N-Cadherin/CDH2 Antibody
Gene Name	CDH2
Source	Rabbit
Clonality	Polyclonal
Isotype	IgG
Species Reactivity	human, mouse, rat
Tested Application	WB, IHC, FCM, IF
Contents	500 ug/ml antibody with PBS, 0.02% NaN3, 1 mg/ml BSA and 50% glycerol.
Immunogen	A synthetic peptide corresponding to a sequence in the middle region of human N Cadherin, identical to the related rat and mouse sequences.
Concentration	500 ug/ml
Purification	Immunogen affinity purified.
Observed MW	140 kDa
Dilution Ratios	Western blot (WB): 1:500-2000 Immunohistochemistry (IHC): 1:50-400 Immunofluorescence (IF) : 1:50-400 Flow Cytometry (Fixed): 1:50-200 (Boiling the paraffin sections in 10mM citrate buffer,pH6.0,or PH8.0 EDTA repair liquid for 20 mins is required for the staining of formalin/paraffin sections.) Optimal working dilutions must be determined by end user.

Storage

12 months from date of receipt，-20℃ as supplied. 6 months 2 to 8℃ after reconstitution. Avoid repeated freezing and thawing.

Background Information

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.

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Reference

Anti-N-Cadherin/CDH2 Antibody 被引用在47文献中。

Selected Validation Data

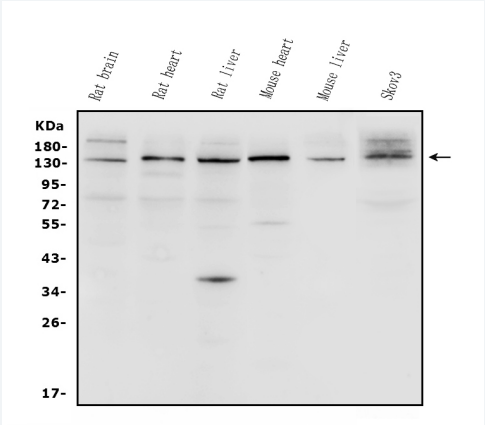

Figure 1. Western blot analysis of N-Cadherin/CDH2 using anti-N-Cadherin/CDH2 antibody (BA0673). The sample well of each lane was loaded with 30 ug of sample under reducing conditions.
Lane 1: Rat brain tissue lysates,
Lane 2: Rat heart tissue lysates,
Lane 3: Rat liver tissue lysates,
Lane 4: Mouse heart tissue lysates,
Lane 5: Mouse liver tissue lysates,
Lane 6: Human SKOV3 whole cell lysates.
After electrophoresis, proteins were transferred to a membrane. Then the membrane was incubated with rabbit anti-N-Cadherin/CDH2 antigen affinity purified polyclonal antibody (BA0673) at a dilution of 1:1000 and probed with a goat anti-rabbit IgG-HRP secondary antibody (Catalog # BA1054). The signal is developed using ECL Plus Western Blotting Substrate (Catalog # AR1197). A specific band was detected for N-Cadherin/CDH2 at approximately 140 kDa. The expected band size for N-Cadherin/CDH2 is at 100 kDa.

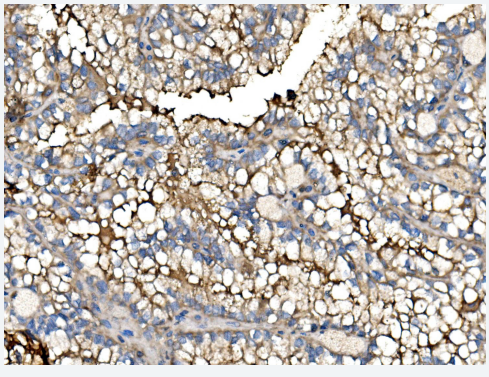

Figure 2. IHC analysis of N-Cadherin/CDH2 using anti-N-Cadherin/CDH2 antibody (BA0673).
N-Cadherin/CDH2 was detected in a paraffin-embedded section of human tonsil tissue. Biotinylated goat anti-rabbit IgG was used as secondary antibody. The tissue section was incubated with rabbit anti-N-Cadherin/CDH2 Antibody (BA0673) at a dilution of 1:200 and developed using Strepavidin-Biotin-Complex (SABC) (Catalog # SA1022) with DAB (Catalog # AR1022) as the chromogen.

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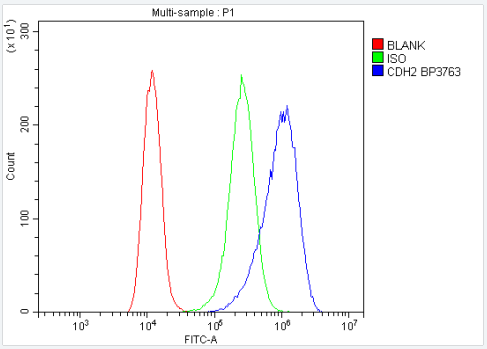

Figure 5. Flow Cytometry analysis of Hela cells using anti-N-Cadherin/CDH2 antibody (BA0673).
Overlay histogram showing Hela cells stained with BA0673 (Blue line). The cells were fixed with 4% paraformaldehyde and blocked with 10% normal goat serum. And then incubated with rabbit anti-N-Cadherin/CDH2 Antibody (BA0673) at 1:100 dilution for 30 min at 20°C. DyLight®488 conjugated goat anti-rabbit IgG (BA1127) was used as secondary antibody at 1:100 dilution for 30 minutes at 20°C. Isotype control antibody (Green line) was rabbit IgG at 1:100 dilution used under the same conditions. Unlabelled sample without incubation with primary antibody and secondary antibody (Red line) was used as a blank control.

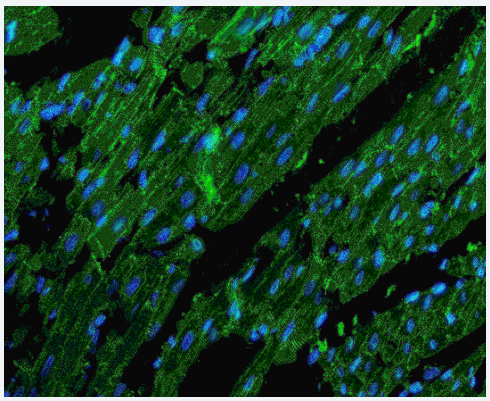

Figure 6. IF analysis using anti- CDH2 antibody (BA0673). detected in paraffin-embedded section of rat heart tissue. The tissue section were stained using the Dylight488-conjugated Anti-rabbit IgG Secondary Antibody (green) (Catalog # BA1127) and counterstained with DAPI (blue).