

## Basic Information

<b>Product Name</b>	Anti-N-Cadherin/CDH2 Antibody	
<b>Gene Name</b>	CDH2	
<b>Source</b>	Rabbit	
<b>Clonality</b>	Polyclonal	
<b>Isotype</b>	IgG	
<b>Species Reactivity</b>	human, mouse, rat	
<b>Tested Application</b>	WB, IHC, IF, ICC/IF, FCM, ELISA	
<b>Contents</b>	500 ug/ml antibody with PBS, 0.02% NaN3, 1 mg/ml BSA and 50% glycerol.	
<b>Immunogen</b>	E. coli-derived human N Cadherin/CDH2 recombinant protein (Position: E170-E266). Human CDH2 shares 99% amino acid (aa) sequence identity with both mouse and rat CDH2.	
<b>Concentration</b>	500 ug/ml	
<b>Purification</b>	Immunogen affinity purified.	
<b>Observed MW</b>	140 kDa	
<b>Dilution Ratios</b>	Western blot (WB):	1:500-2000
	Immunohistochemistry (IHC):	1:50-400
	Immunofluorescence (IF) :	1:50-400
	Immunocytochemistry/Immunofluorescence (ICC/IF):	1:50-400
	Flow Cytometry (Fixed):	1:50-200
	Enzyme linked immunosorbent assay (ELISA):	1:100-1000
	(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°C as supplied.

## Background Information

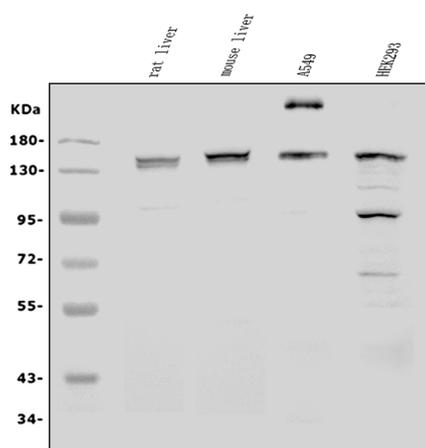
N-cadherin (NCAD) is a member of the cadherin cell-cell adhesion receptor family that includes P-, E-, and R-cadherin and liver cell adhesion molecule (L-CAM). N-Cadherin,, also known as Cadherin-2, encodes a 907-amino acid protein that includes a 159-amino acid signal sequence. Human and mouse nucleotide 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.

## Reference

Anti-N-Cadherin/CDH2 Antibody 被引用在19文献中。

## Selected Validation Data



Western blot analysis of N-Cadherin/CDH2 using anti-N-Cadherin/CDH2 antibody (A01577-3). The sample well of each lane was loaded with 30 ug of sample under reducing conditions.

Lane 1: Rat liver tissue lysates,

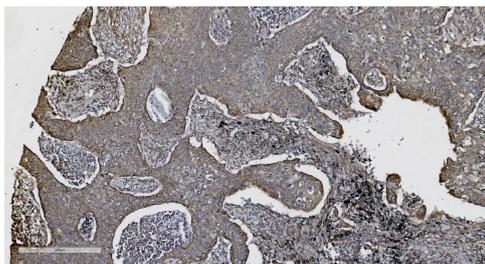
Lane 2: Mouse liver tissue lysates,

Lane 3: human A549 whole cell lysates,

Lane 4: human HEK293 whole cell lysates.

After electrophoresis, proteins were transferred to a membrane.

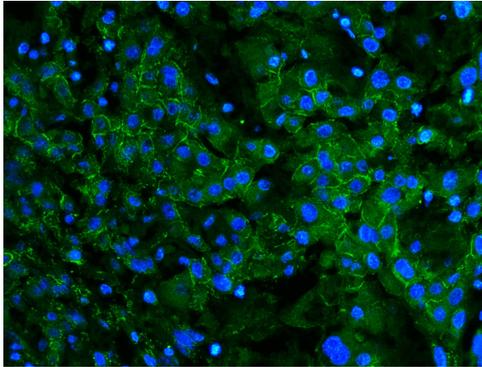
Then the membrane was incubated with rabbit anti-N-Cadherin/CDH2 antigen affinity purified polyclonal antibody (A01577-3) at a dilution of 1:1000 and probed with a goat anti-rabbit IgG-HRP secondary antibody (Catalog # BA1054). The signal is developed using ECL Plus Western Blotting Substrate (Catalog # 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.



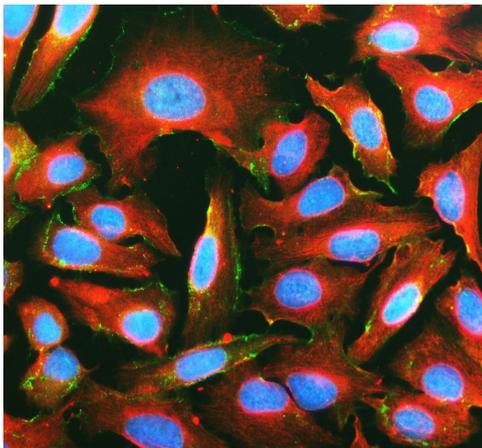
IHC analysis of N-Cadherin/CDH2 using anti-N-Cadherin/CDH2 antibody (A01577-3).

N-Cadherin/CDH2 was detected in a paraffin-embedded section of human liver cancer tissue. Biotinylated goat anti-rabbit IgG was used as secondary antibody. The tissue section was incubated with rabbit anti-N-Cadherin/CDH2 Antibody (A01577-3) at a dilution of 1:200 and developed using Streptavidin-Biotin-Complex (SABC) (Catalog #

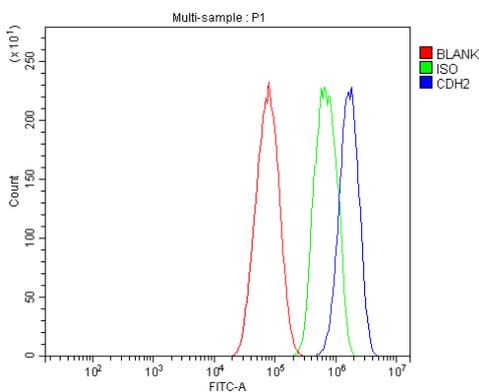
SA1022) with DAB (Catalog # AR1027) as the chromogen.



IF analysis using anti- CDH2 antibody (A01577-3). detected in paraffin-embedded section of human liver cancer tissue. The tissue section were stained using the Fluoro488-conjugated Anti-rabbit IgG Secondary Antibody (green) (Catalog # BA1127) and counterstained with DAPI (blue).



ICC/IF analysis of N-Cadherin/CDH2 using anti-N-Cadherin/CDH2 antibody (A01577-3) and anti-Beta Tubulin antibody (M01857-3). N-Cadherin/CDH2 was detected in an immunocytochemical section of HeLa cells. The section was incubated with rabbit anti-N-Cadherin/CDH2 Antibody (A01577-3) at a dilution of 1:100. Fluoro488-conjugated Anti-rabbit IgG Secondary Antibody (green) (Catalog # BA1127) and Cy3-conjugated Anti-mouse IgG Secondary Antibody (red) (Catalog # BA1031) were used as secondary antibody. The section was counterstained with DAPI (Catalog # AR1176) (Blue).



Flow Cytometry analysis of HepG2 cells using anti-N-Cadherin/CDH2 antibody (A01577-3).

Overlay histogram showing HepG2 cells stained with A01577-3 (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 (A01577-3) at 1:100 dilution for 30 min at 20°C. Fluoro488 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.

Product datasheet

## Anti-N-Cadherin/CDH2 Antibody

Catalog Number: **A01577-3**

**BOSTER**<sup>®</sup>

antibody and ELISA experts

**BOSTER BIOLOGICAL TECHNOLOGY**

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