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N-cadherin Polyclonal Antibody

Catalog Number PA5-29570

Product data sheet

Details	
Size	100 µL
Host/Isotope	Rabbit / IgG
Class	Polyclonal
Type	Antibody
Immunogen	Recombinant fragment corresponding to a region within amino acids 79 and 387 of Human N-cadherin
Conjugate	Unconjugated
Form	Liquid
Concentration	0.19 mg/mL
Purification	Antigen affinity chromatography
Storage buffer	PBS, pH 7, with 1% BSA, 20% glycerol
Contains	0.025% ProClin 300
Storage Conditions	Store at 4°C short term. For long term storage, store at -20°C, avoiding freeze/thaw cycles.

Species Reactivity	
Species reactivity	Human, Mouse, Rat
Published species	Human, Mouse, Not Applicable

Tested Applications	Dilution *
Immunohistochemistry (Paraffin) (IHC (P))	1:100-1:1,000
Western Blot (WB)	1:500-1:3,000
Immunocytochemistry (ICC/IF)	1:100-1:1,000

Published Applications	
Immunohistochemistry (IHC)	See 1 publications below

* Suggested working dilutions are given as a guide only. It is recommended that the user titrate the product for use in their own experiment using appropriate negative and positive controls.

Product specific information

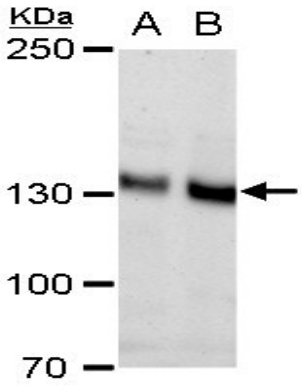
Recommended positive controls: NT2D1, U87-MG, SK-N-SH, IMR-32, SK-N-AS, mouse brain, rat brain, PC-12, Rat2. Predicted reactivity: Mouse (95%), Rat (95%), Xenopus laevis (85%), Dog (96%), Chicken (91%), Bovine (96%). Store product as a concentrated solution. Centrifuge briefly prior to opening the vial.

Background/Target Information

N-cadherin is a 140 kDa protein belonging to a family of transmembrane molecules that mediate calcium-dependent intercellular adhesion. Cadherins are involved in controlling morphogenetic movements during development and regulate cell surface adhesion through homotypic adhesion with the same cadherin species. N-cadherin's function is dependent on its association with the actin-cytoskeleton and is mediated through interactions between the C-terminal region of N-cadherin and the cytoplasmic catenin proteins. The stability of this association is regulated by phosphorylation and dephosphorylation of beta-catenin. Further, N-cadherin is a calcium dependent cell-cell adhesion glycoprotein comprised of five extracellular cadherin repeats, a transmembrane region and a highly conserved cytoplasmic tail. The protein functions during gastrulation and is required for establishment of left-right asymmetry.

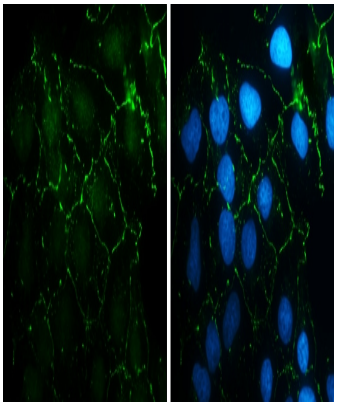
For Research Use Only. Not for use in diagnostic procedures. Not for resale without express authorization.

Product Images For N-cadherin Polyclonal Antibody



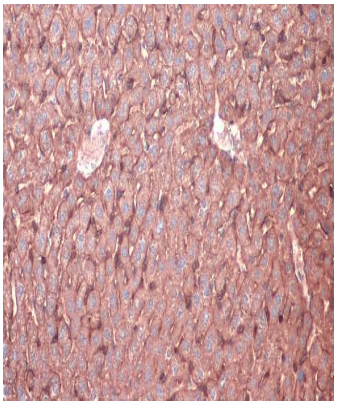
N-cadherin Antibody (PA5-29570) in WB

N-cadherin Polyclonal Antibody detects N-Cadherin protein by western blot analysis. A. 30 µg PC-12 whole cell extract. B. 30 µg Rat2 whole cell extract.5% SDS-PAGE. N-cadherin Polyclonal Antibody (Product # PA5-29570) dilution: 1:1,000. The HRP-conjugated anti-rabbit IgG antibody was used to detect the primary antibody.



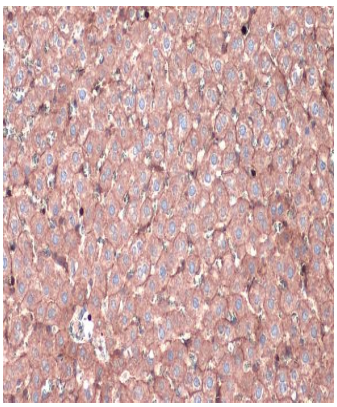
N-cadherin Antibody (PA5-29570) in ICC/IF

Immunocytochemistry-Immunofluorescence analysis of N-cadherin was performed in NT2D1 cells fixed in 4% paraformaldehyde at RT for 15 min. Green: N-cadherin Polyclonal Antibody (Product # PA5-29570) diluted at 1:500. Blue: Hoechst 33342 staining.



N-cadherin Antibody (PA5-29570) in IHC (P)

Immunohistochemistry (Paraffin) analysis of N-cadherin was performed in paraffin-embedded mouse liver tissue using N-cadherin Polyclonal Antibody (Product # PA5-29570) at a dilution of 1:500. Antigen Retrieval: Citrate buffer, pH 6.0, 15 min.



N-cadherin Antibody (PA5-29570) in IHC (P)

Immunohistochemistry (Paraffin) analysis of N-cadherin was performed in paraffin-embedded rat liver tissue using N-cadherin Polyclonal Antibody (Product # PA5-29570) at a dilution of 1:500. Antigen Retrieval: Citrate buffer, pH 6.0, 15 min.

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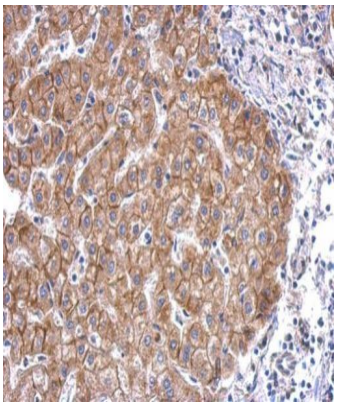
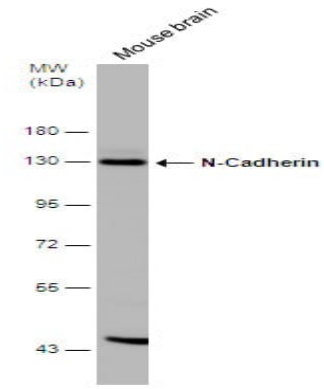


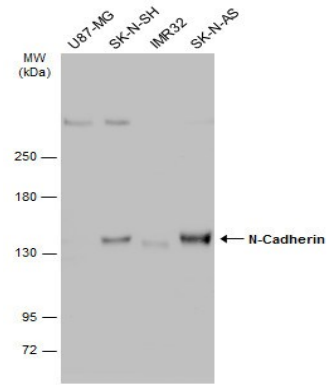
N-cadherin Antibody (PA5-29570) in IHC (P)

N-cadherin Polyclonal Antibody detects CDH2 protein at membrane on hepatoma by immunohistochemical analysis. Sample: Paraffin-embedded human hepatoma. N-cadherin Polyclonal Antibody (Product # PA5-29570) dilution: 1:500. Antigen Retrieval: EDTA based buffer, pH 8.0, 15 min.



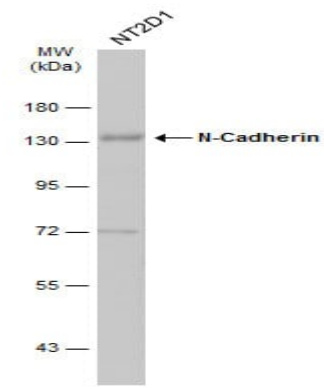
N-cadherin Antibody (PA5-29570) in WB

Western Blot analysis of N-cadherin was performed by separating 50 µg of Mouse tissue extracts by 7.5% SDS-PAGE. Proteins were transferred to a membrane and probed with a N-cadherin Polyclonal Antibody (Product # PA5-29570) at a dilution of 1:500. The HRP-conjugated anti-rabbit IgG antibody was used to detect the primary antibody.



N-cadherin Antibody (PA5-29570) in WB

Western Blot using N-cadherin Polyclonal Antibody (Product # PA5-29570). Various whole cell extracts (30 µg) were separated by 5% SDS-PAGE, and the membrane was blotted with N-cadherin Polyclonal Antibody (Product # PA5-29570) diluted at 1:1,000. The HRP-conjugated anti-rabbit IgG antibody was used to detect the primary antibody.



N-cadherin Antibody (PA5-29570) in WB

Western Blot analysis of N-cadherin was performed by separating 30 µg of Whole cell extracts by 7.5% SDS-PAGE. Proteins were transferred to a membrane and probed with a N-cadherin Polyclonal Antibody (Product # PA5-29570) at a dilution of 1:1000. The HRP-conjugated anti-rabbit IgG antibody was used to detect the primary antibody.

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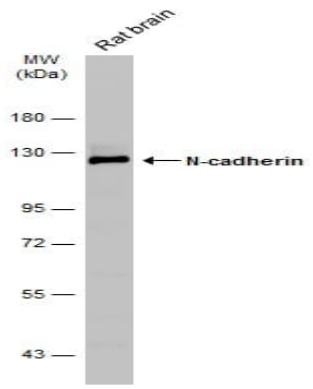
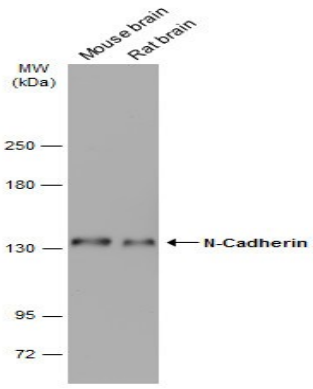


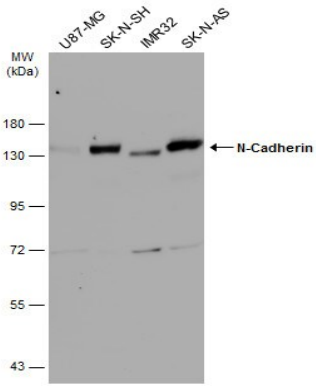
N-cadherin Antibody (PA5-29570) in WB

Western Blot analysis of N-cadherin was performed by separating 50 µg of Rat tissue extracts by 7.5% SDS-PAGE. Proteins were transferred to a membrane and probed with a N-cadherin Polyclonal Antibody (Product # PA5-29570) at a dilution of 1:1000. The HRP-conjugated anti-rabbit IgG antibody was used to detect the primary antibody.



N-cadherin Antibody (PA5-29570) in WB

Western Blot using N-cadherin Polyclonal Antibody (Product # PA5-29570). Various tissue extracts (50 µg) were separated by 5% SDS-PAGE, and the membrane was blotted with N-cadherin Polyclonal Antibody (Product # PA5-29570) diluted at 1:1,000. The HRP-conjugated anti-rabbit IgG antibody was used to detect the primary antibody.



N-cadherin Antibody (PA5-29570) in WB

Western Blot analysis of N-cadherin was performed by separating 30 µg of various whole cell extracts by 7.5% SDS-PAGE. Proteins were transferred to a membrane and probed with a N-cadherin Polyclonal Antibody (Product # PA5-29570) at a dilution of 1:1000 and a HRP-conjugated anti-rabbit IgG secondary antibody.

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PubMed References For N-cadherin Polyclonal Antibody

1 Immunohistochemistry References

Species / Dilution	Summary
	PA5-29570 was used in Immunohistochemistry-immunofluorescence to create a 3D connectivity map of a stem cell derived neuron spheroid by imaging its activity.
Mouse / Not Cited	Scientific reports (2022; 12:) **"A minimal-complexity light-sheet microscope maps network activity in 3D neuronal systems."** Author(s):Wysmolek PM,Kiessler FD,Salbaum KA,Shelton ER,Sonntag SM,Serwane F PubMed Article URL:http://dx.doi.org/10.1038/s41598-022-24350-y

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