

# Product Datasheet

## N-Cadherin Antibody NBP2-19457

Unit Size: 0.1 ml

Aliquot and store at -20C or -80C. Avoid freeze-thaw cycles.

[www.novusbio.com](http://www.novusbio.com)



[technical@novusbio.com](mailto:technical@novusbio.com)

### Publications: 1

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Updated 10/6/2025 v.20.1

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**NBP2-19457**

## N-Cadherin Antibody

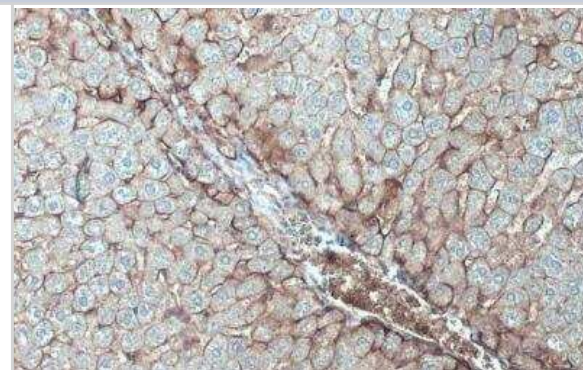
Product Information	
<b>Unit Size</b>	0.1 ml
<b>Concentration</b>	Concentrations vary lot to lot. See vial label for concentration. If unlisted please contact technical services.
<b>Storage</b>	Aliquot and store at -20C or -80C. Avoid freeze-thaw cycles.
<b>Clonality</b>	Polyclonal
<b>Preservative</b>	0.025% Proclin 300
<b>Isotype</b>	IgG
<b>Purity</b>	Antigen Affinity-purified
<b>Buffer</b>	PBS, 1% BSA, 20% Glycerol
<b>Target Molecular Weight</b>	100 kDa

Product Description	
<b>Description</b>	Novus Biologicals Knockout (KO) Validated Rabbit N-Cadherin Antibody (NBP2-19457) is a polyclonal antibody validated for use in IHC, WB, ICC/IF and Simple Western. Anti-N-Cadherin Antibody: Cited in 1 publication. All Novus Biologicals antibodies are covered by our 100% guarantee.
<b>Host</b>	Rabbit
<b>Gene ID</b>	1000
<b>Gene Symbol</b>	CDH2
<b>Species</b>	Human, Mouse, Rat
<b>Marker</b>	Mesenchymal Cells Marker
<b>Immunogen</b>	Carrier-protein conjugated synthetic peptide encompassing a sequence within the C-terminus region of human N-Cadherin. The exact sequence is proprietary.

Product Application Details	
<b>Applications</b>	Western Blot, Simple Western, Immunohistochemistry-Paraffin, Immunocytochemistry/ Immunofluorescence, Immunohistochemistry, Immunohistochemistry-Frozen, Knockout Validated
<b>Recommended Dilutions</b>	Western Blot 1:500-1:3000, Simple Western 1:100, Immunohistochemistry 1:100-1:1000, Immunocytochemistry/ Immunofluorescence 1:100-1:1000, Immunohistochemistry-Paraffin 1:100-1:1000, Immunohistochemistry-Frozen 1:100-1:1000, Knockout Validated

**Images**

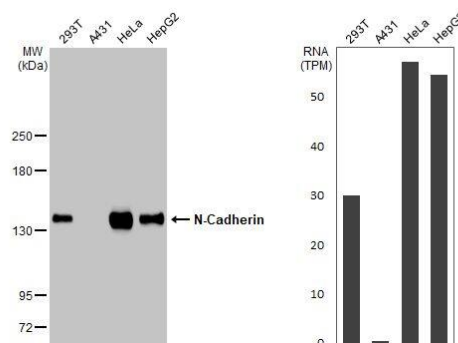
Immunohistochemistry-Paraffin: N-Cadherin Antibody [NBP2-19457] - Mouse liver. N-Cadherin stained by N-Cadherin antibody diluted at 1:500. Antigen Retrieval: Citrate buffer, pH 6.0, 15 min.



Immunohistochemistry-Frozen: N-Cadherin Antibody [NBP2-19457] - Frozen section of embryonic mouse brain (mE18.5). N-Cadherin antibody diluted at 1:500.



Various whole cell extracts (30 ug) were separated by 5% SDS-PAGE, and the membrane was blotted with N-Cadherin antibody (NBP2-19457) diluted at 1:1000. The HRP-conjugated anti-rabbit IgG antibody was used to detect the primary antibody. Corresponding RNA expression data for the same cell lines are based on Human Protein Atlas program.



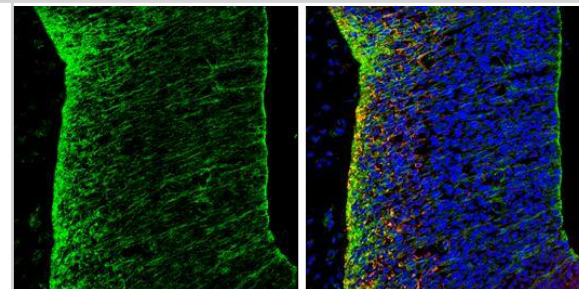
N-Cadherin antibody detects N-Cadherin protein expression by immunohistochemical analysis.

Sample: Frozen sectioned E13.5 Rat brain.

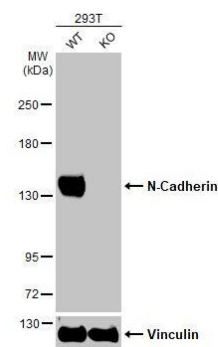
Green: N-Cadherin protein stained by N-Cadherin antibody (NBP2-19457) diluted at 1:250.

Red: beta Tubulin 3/ TUJ1, a mature neuron marker, stained by beta Tubulin 3/ TUJ1 antibody [GT11710] diluted at 1:500.

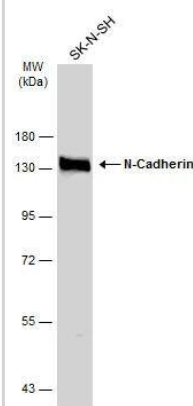
Blue: Fluoroshield with DAPI .



Wild-type (WT) and N-Cadherin knockout (KO) 293T cell extracts (30 ug) were separated by 5% SDS-PAGE, and the membrane was blotted with N-Cadherin antibody (NBP2-19457) diluted at 1:1000. The HRP-conjugated anti-rabbit IgG antibody was used to detect the primary antibody.



Whole cell extract (30 ug) was separated by 7.5% SDS-PAGE, and the membrane was blotted with N-Cadherin antibody (NBP2-19457) diluted at 1:1000. The HRP-conjugated anti-rabbit IgG antibody was used to detect the primary antibody.

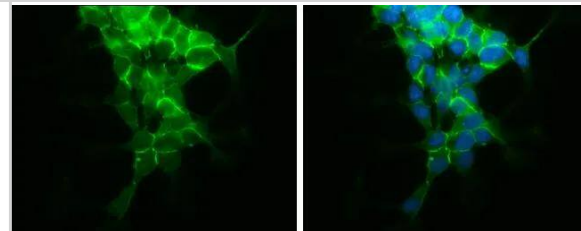


N-Cadherin antibody detects N-Cadherin protein at cell membrane by immunofluorescent analysis.

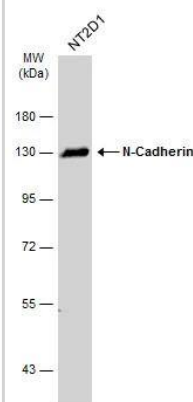
Sample: SH-SY5Y cells were fixed in 4% paraformaldehyde at RT for 15 min.

Green: N-Cadherin protein stained by N-Cadherin antibody (NBP2-19457) diluted at 1:500.

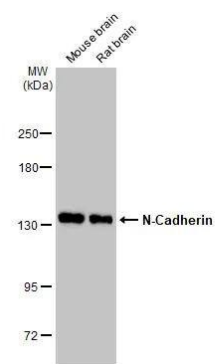
Blue: Hoechst 33342 staining.



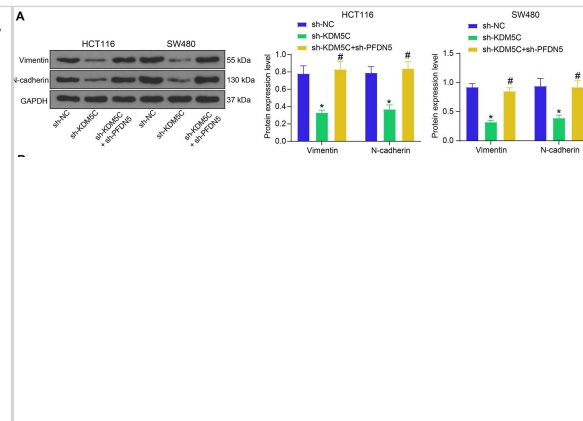
Whole cell extract (30 ug) was separated by 7.5% SDS-PAGE, and the membrane was blotted with N-Cadherin antibody (NBP2-19457) diluted at 1:1000. The HRP-conjugated anti-rabbit IgG antibody was used to detect the primary antibody.



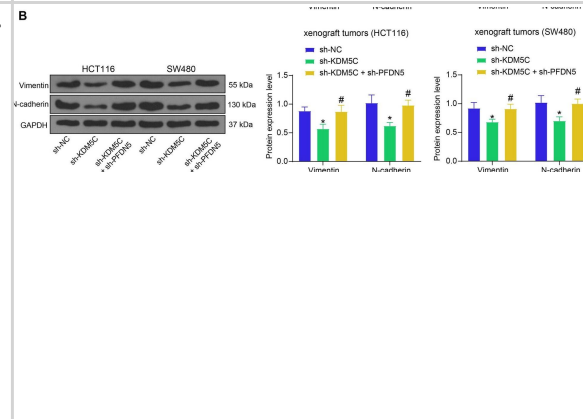
Various tissue extracts (50 ug) were separated by 5% SDS-PAGE, and the membrane was blotted with N-Cadherin antibody (NBP2-19457) diluted at 1:5000. The HRP-conjugated anti-rabbit IgG antibody was used to detect the primary antibody.



KDM5C/PFDN5 affects EMT in CRC. A protein levels of Vimentin and N-cadherin in HCT116 and SW480 cells determined by WB analysis (two-way ANOVA); B protein levels of Vimentin and N-cadherin in xenograft tumors determined by western blot analysis (two-way ANOVA). For cellular experiments, three biological replicates were performed. For animal studies, n = 5 in each group. \*p < 0.05 vs. the sh-NC group; #p < 0.05 vs. the sh-KDM5C group Image collected and cropped by CiteAb from the following open publication (<https://molmed.biomedcentral.com/articles/10.1186/s10020-023-00775-7>), licensed under a CC-BY license. Not internally tested by Novus Biologicals.



KDM5C/PFDN5 affects EMT in CRC. A protein levels of Vimentin and N-cadherin in HCT116 and SW480 cells determined by WB analysis (two-way ANOVA); B protein levels of Vimentin and N-cadherin in xenograft tumors determined by western blot analysis (two-way ANOVA). For cellular experiments, three biological replicates were performed. For animal studies, n = 5 in each group. \*p < 0.05 vs. the sh-NC group; #p < 0.05 vs. the sh-KDM5C group Image collected and cropped by CiteAb from the following open publication (<https://molmed.biomedcentral.com/articles/10.1186/s10020-023-00775-7>), licensed under a CC-BY license. Not internally tested by Novus Biologicals.



## Publications

Fulong Yu, Liang Li, Yimei Gu, Song Wang, Lianbang Zhou, Xiaohu Cheng, Heng Jiang, Yang Huang, Yingfeng Zhang, Wenbao Qian, Xianghua Li, Zhining Liu Lysine demethylase 5C inhibits transcription of prefoldin subunit 5 to activate c-Myc signal transduction and colorectal cancer progression *Molecular Medicine* 2024-01-12 [PMID: 38216914]



### **Novus Biologicals USA**

10730 E. Briarwood Avenue  
Centennial, CO 80112  
USA  
Phone: 303.730.1950  
Toll Free: 1.888.506.6887  
Fax: 303.730.1966  
nb-customerservice@bio-techne.com

### **Bio-Techne Canada**

21 Canmotor Ave  
Toronto, ON M8Z 4E6  
Canada  
Phone: 905.827.6400  
Toll Free: 855.668.8722  
Fax: 905.827.6402  
canada.inquires@bio-techne.com

### **Bio-Techne Ltd**

19 Barton Lane  
Abingdon Science Park  
Abingdon, OX14 3NB, United Kingdom  
Phone: (44) (0) 1235 529449  
Free Phone: 0800 37 34 15  
Fax: (44) (0) 1235 533420  
info.EMEA@bio-techne.com

### **General Contact Information**

www.novusbio.com  
Technical Support: nb-technical@bio-techne.com  
Orders: nb-customerservice@bio-techne.com  
General: novus@novusbio.com

### **Products Related to NBP2-19457**

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NBP2-33376H	Blue Marker Antibody (6F4-F6) [HRP]
HAF008	Goat anti-Rabbit IgG Secondary Antibody [HRP]
NB7160	Goat anti-Rabbit IgG (H+L) Secondary Antibody [HRP]
NBP2-24891	Rabbit IgG Isotype Control

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### **Limitations**

This product is for research use only and is not approved for use in humans or in clinical diagnosis. Primary Antibodies are guaranteed for 1 year from date of receipt.

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