

# Product Datasheet

## N-Cadherin Antibody (13A9) - Azide and BSA Free NBP2-80868

Unit Size: 0.1 ml

Store at 4C short term. Aliquot and store at -20C long term. Avoid freeze-thaw cycles.

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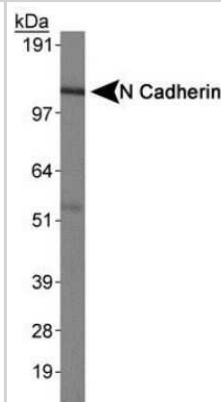
**NBP2-80868**

N-Cadherin Antibody (13A9) - Azide and BSA Free

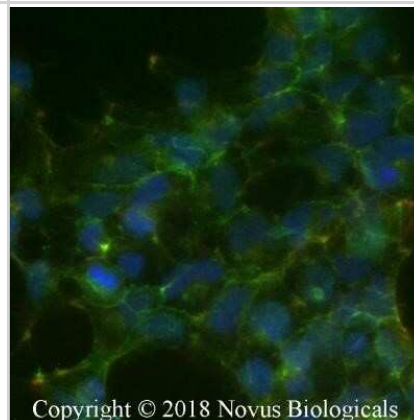
Product Information	
Unit Size	0.1 ml
Concentration	1 mg/ml
Storage	Store at 4C short term. Aliquot and store at -20C long term. Avoid freeze-thaw cycles.
Clonality	Monoclonal
Clone	13A9
Preservative	No Preservative
Isotype	IgG1
Purity	Protein G purified
Buffer	Tris-Glycine, 0.15M NaCl
Target Molecular Weight	140 kDa
Product Description	
Host	Mouse
Gene ID	1000
Gene Symbol	CDH2
Species	Human, Mouse, Rat
Immunogen	This N-Cadherin Antibody (13A9) - Azide and BSA Free was developed against the cytoplasmic domain of human N Cadherin [Swiss-Prot# P19022].
Product Application Details	
Applications	Western Blot, Simple Western, Flow Cytometry, Flow (Intracellular), Immunocytochemistry/ Immunofluorescence, Immunohistochemistry, Immunohistochemistry-Paraffin, Immunoprecipitation
Recommended Dilutions	Western Blot 0.5 ug/ml, Simple Western 1:50, Flow Cytometry, Immunohistochemistry 1:50-1:200, Immunocytochemistry/ Immunofluorescence 1:100, Immunoprecipitation 1:10-1:500, Immunohistochemistry-Paraffin 1:50-1:100, Flow (Intracellular)
Application Notes	<p>In Western Blot a band is observed at approx. 140 kDa.</p> <p>In Simple Western only 10 - 15 uL of the recommended dilution is used per data point.</p> <p>See <a href="#">Simple Western Antibody Database</a> for Simple Western validation: antibody dilution of 1:50. Separated by Size-Wes, Sally Sue/Peggy Sue.</p> <p>The observed molecular weight of the protein may vary from the listed predicted molecular weight due to post translational modifications, post translation cleavages, relative charges, and other experimental factors.</p>

## Images

Western Blot: N-Cadherin Antibody (13A9) - Azide and BSA Free [NBP2-80868] - Analysis of N Cadherin expression in HeLa whole cell lysate. Image from the standard format of this antibody.

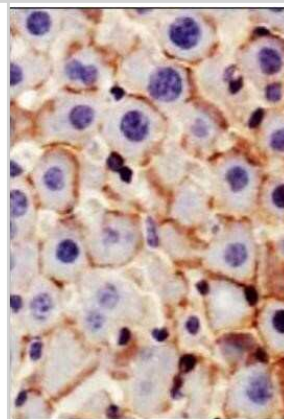


Immunocytochemistry/Immunofluorescence: N-Cadherin Antibody (13A9) - Azide and BSA Free [NBP2-80868] - Hek293 cells were fixed for 10 minutes using 10% formalin and then permeabilized for 5 minutes using 1X PBS + 0.5% Triton-X100. The cells were incubated with anti-N-Cadherin Antibody (13A9) at 5 ug/ml overnight at 4C and detected with an anti-mouse Dylight 488 (Green) at a 1:500 dilution. Actin was detected with Phalloidin 568 (Red) at a 1:200 dilution. Nuclei were counterstained with DAPI (Blue). Cells were imaged using a 40X objective. Image from the standard format of this antibody.

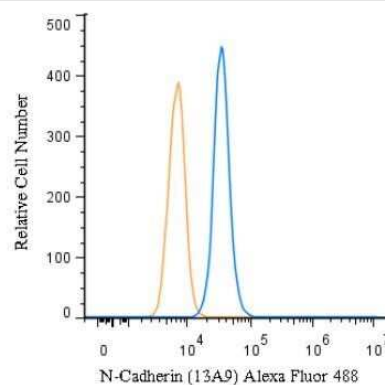


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Immunohistochemistry: N-Cadherin Antibody (13A9) - Azide and BSA Free [NBP2-80868] - IHC analysis of N Cadherin in mouse liver using DAB with hematoxylin counterstain. Image from the standard format of this antibody.

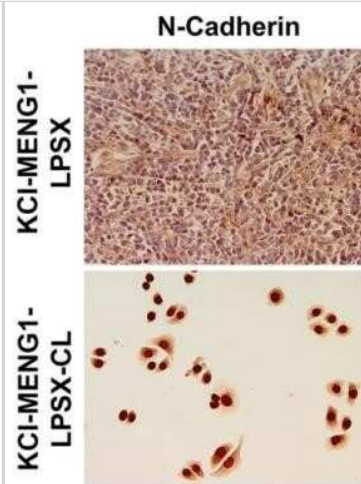


Flow Cytometry: N-Cadherin Antibody (13A9) - Azide and BSA Free [NBP2-80868] - An intracellular stain was performed on HeLa cells with N-Cadherin Antibody (13A9)NBP1-48309AF488 and a matched isotype control (orange). Cells were fixed with 4% PFA and then permeabilized with 0.1% saponin. Cells were incubated in an antibody dilution of 10 ug/mL for 30 minutes at room temperature. Both antibodies were directly conjugated to Alexa Fluor 488.

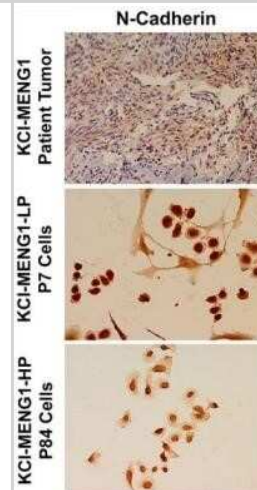


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Immunocytochemistry: N-Cadherin Antibody (13A9) - Azide and BSA Free [NBP2-80868] - Human meningioma mouse xenograft model KCI-MENG1-LPSX generated with the spontaneously immortal cell line KCI-MENG1-LP. Tumors from immunocompromised SCID mice were dissected and the derivative cell line KCI-MENG1-LPSX CL was generated. The EMA, PR, and N-cadherin IHC of the mouse tumor highly resembled the original patient-derived tumor. The vimentin- and Ki-67-stained cells in the mouse tumor tissue were markedly more abundant and more intensely stained than in the original tumor. KCI-MENG1-LPSX CL cells displayed the same patterns of immunostaining as the high passage parent cell line KCI-MENG1-HP, including the loss of PR staining. Scale bar 50  $\mu$ m. Image collected and cropped by CiteAb from the following publication (<https://www.translational-medicine.com/content/13/1/227>), licensed under a CC-BY license. Image from the standard format of this antibody.



Immunocytochemistry: N-Cadherin Antibody (13A9) - Azide and BSA Free [NBP2-80868] - Immunostaining of original tumor, low passage, & high passage KCI-MENG1. Original patient-derived tumor (top) had moderate & patchy immunoreactivity for epithelial membrane antigen (EMA); strong & diffuse immunostaining for progesterone receptor (PR); & a Ki-67 proliferative index of 2-3%. Strong immunostaining for N-cadherin & vimentin. KCI-MENG1-LP (middle row) & KCI-MENG1-HP (bottom row) maintained expression of EMA, N-cadherin, & vimentin but had significantly reduced PR expression compared to the original tumor. Ki-67 labeling was found in only a small number of cells in the original tumor & low passage cells, it was positive in virtually all P84 cells. Scale bar 50  $\mu$ m. Image collected & cropped by CiteAb from the following publication (<https://www.translational-medicine.com/content/13/1/227>), licensed under a CC-BY license. Image from the standard format of this antibody.



Simple Western: N-Cadherin Antibody (13A9) - Azide and BSA Free [NBP2-80868] - Simple Western lane view shows a specific band for N Cadherin in 1.0 mg/mL of HeLa lysate. This experiment was performed under reducing conditions using the 12-230 kDa separation system. Image from the standard format of this antibody.





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### **Products Related to NBP2-80868**

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HAF007	Goat anti-Mouse IgG Secondary Antibody [HRP]
NB720-B	Rabbit anti-Mouse IgG (H+L) Secondary Antibody [Biotin]
NBP1-97005-0.5mg	Mouse IgG1 Isotype Control (MG1)
NBP2-59927-50ug	Recombinant Human N-Cadherin His Protein

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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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