

# Product Datasheet

## Classical Cadherins Antibody Pack

### NBP3-20202

Unit Size: 10 Vials

Storage is content dependent.

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**NBP3-20202****Classical Cadherins Antibody Pack**

<b>Product Information</b>	
<b>Unit Size</b>	10 Vials
<b>Concentration</b>	Concentration of individual antibodies may be found on the vial label. If unlisted please contact technical services.
<b>Storage</b>	Storage is content dependent.
<b>Product Description</b>	
<b>Description</b>	This pack contains 1 vial each of: AF4096-SP (0.025 mg), NBP1-48309SS (0.025 mg), AF748-SP (0.025 mg), MAB861-SP (0.025 ml), MAB18385-SP (0.025 mg), MAB9381-SP (0.025 mg), MAB2715-SP (0.025 mg), HAF007 (1.0 ml), HAF016 (1.0 ml) and HAF017 (1.0 ml).
<b>Species</b>	Human
<b>Reactivity Notes</b>	Antibodies in this pack are validated for use in the following species: AF4096: Human NBP1-48309: Human, Mouse, Rat AF748: Human, Mouse MAB861: Human MAB18385: Human, Mouse MAB9381: Human MAB2715: Human HAF007: Mouse HAF016: Sheep HAF017: Goat
<b>Immunogen</b>	See individual datasheets.
<b>Kit Components</b>	AF4096-SP, NBP1-48309SS, AF748-SP, MAB861-SP, MAB18385-SP, MAB9381-SP, MAB2715-SP, HAF007: Goat anti-Mouse IgG Secondary Antibody [HRP], HAF016: Donkey anti-Sheep IgG Secondary Antibody [HRP], HAF017: Rabbit anti-Goat IgG Secondary Antibody [HRP (Horseradish Peroxidase)]
<b>Product Application Details</b>	
<b>Applications</b>	Western Blot, Flow Cytometry, Immunocytochemistry/Immunofluorescence, Immunohistochemistry, CyTOF-ready
<b>Recommended Dilutions</b>	Western Blot, Flow Cytometry, Immunohistochemistry, Immunocytochemistry/Immunofluorescence, CyTOF-ready
<b>Application Notes</b>	Antibodies in this pack are validated for the following applications:  AF4096: CyTOF-ready, Flow Cytometry, Immunocytochemistry, Western Blot NBP1-48309: Flow (Intracellular), Flow Cytometry, Immunocytochemistry, Immunocytochemistry/Immunofluorescence, Immunohistochemistry, Immunohistochemistry-Paraffin, Immunoprecipitation, Simple Western, Western Blot AF748: CyTOF-ready, Flow Cytometry, Immunocytochemistry, Immunohistochemistry, Simple Western, Western Blot MAB861: CyTOF-ready, ELISA Capture (Matched Antibody Pair), ELISA Detection (Matched Antibody Pair), ELISA Standard (Matched Pair), Flow Cytometry, Immunocytochemistry, Knockout Validated, Simple Western, Western Blot MAB18385: Immunohistochemistry, Western Blot MAB9381: CyTOF-ready, Flow Cytometry, Immunocytochemistry, Western Blot MAB2715: CyTOF-ready, Flow Cytometry, Immunocytochemistry, Western Blot HAF007: Immunohistochemistry, Western Blot HAF016: Immunohistochemistry, Simple Western, Western Blot HAF017: Western Blot

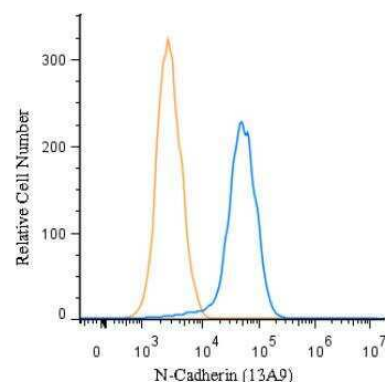


## Images

C2C12 mouse myoblast cell line was stained with Sheep Anti-Human M-Cadherin/ Cadherin-15 Antigen Affinity-purified Polyclonal Antibody (Catalog # AF4096, filled histogram) or control antibody (Catalog # 5-001 -A, open histogram), followed by NorthernLights™ 557-conjugated Anti-Sheep IgG Secondary Antibody (Catalog # NL010).

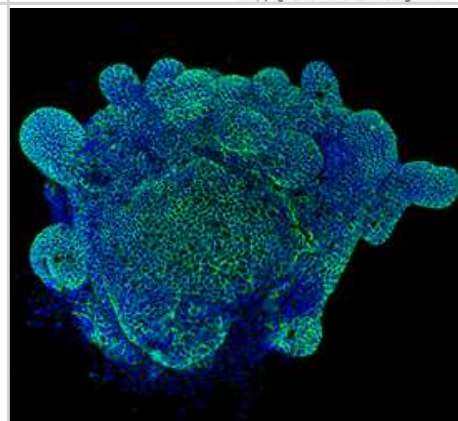


Flow (Intracellular): N-Cadherin Antibody (13A9) [NBP1-48309] - An intracellular stain was performed on HeLa with NBP1-48309 and a matched isotype control. Cells were fixed with 4% PFA and then permeabilized with 0.1% saponin. Cells were incubated in an antibody dilution of 1 µg/mL for 30 minutes at room temperature, followed by Mouse F(ab)2 IgG (H+L) PE-conjugated Antibody.

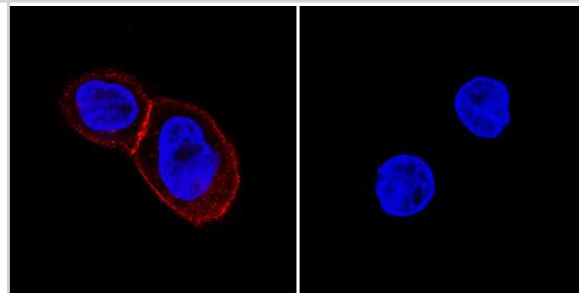


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E-Cadherin was detected in immersion fixed mouse intestinal organoids using Goat Anti-Human/Mouse E-Cadherin Antigen Affinity-purified Polyclonal Antibody (Catalog # AF748) at 10 µg/mL for 3 hours at room temperature. Cells were stained using the NorthernLights™ 493-conjugated Anti-Goat IgG Secondary Antibody (green; Catalog # NL003) and counterstained with DAPI (blue). Specific staining was localized to cell surfaces. View our protocol for Fluorescent ICC Staining of Cells on Coverslips.



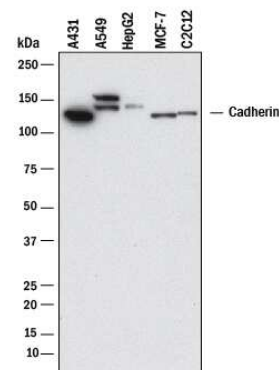
P-Cadherin was detected in immersion fixed A431 human epithelial carcinoma cell line, wildtype (left panel) but is not detected in P-Cadherin knockout (right panel), using Mouse Anti-Human P-Cadherin Monoclonal Antibody (Catalog # MAB861) at 1 µg/mL for 3 hours at room temperature. Cells were stained using the NorthernLights™ 557-conjugated Anti-Mouse IgG Secondary Antibody (red; Catalog # NL007) and counterstained with DAPI (blue). Specific staining was localized to plasma membrane in wildtype cells. View our protocol for Fluorescent ICC Staining of Cells on Coverslips.



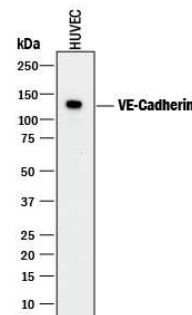
A431

A431 Knockout

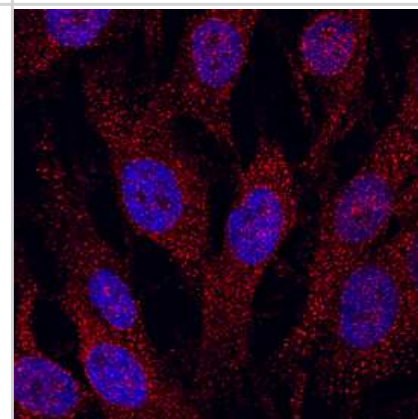
Western blot shows lysates of HEK293T human embryonic kidney cell line mock transfected or transfected with human E-Cadherin and NS0 mouse myeloma cell line transfected with Human P-Cadherin, N-Cadherin, or mock transfected. PVDF membrane was probed with 1 µg/mL of Mouse Anti-Human/Mouse Cadherin Pan Specific Monoclonal Antibody (Catalog # MAB18385) followed by HRP-conjugated Anti-Mouse IgG Secondary Antibody (Catalog # HAF018). A specific band was detected for Cadherin at approximately 135 kDa (as indicated). This experiment was conducted under reducing conditions and using Immunoblot Buffer Group 1.



Western blot shows lysate of HUVEC human umbilical vein endothelial cells. PVDF membrane was probed with 1 µg/mL of Mouse Anti-Human VE-Cadherin Monoclonal Antibody (Catalog # MAB9381) followed by HRP-conjugated Anti-Mouse IgG Secondary Antibody (Catalog # HAF018). A specific band was detected for VE-Cadherin at approximately 125 kDa (as indicated). This experiment was conducted under reducing conditions and using Immunoblot Buffer Group 1.



Cadherin-6/KCAD was detected in immersion fixed MG-63 human osteosarcoma cell line using Mouse Anti-Human Cadherin-6/KCAD Monoclonal Antibody (Catalog # MAB2715) at 10 µg/mL for 3 hours at room temperature. Cells were stained using the NorthernLights™ 557-conjugated Anti-Mouse IgG Secondary Antibody (red; Catalog # NL007) and counterstained with DAPI (blue). Specific staining was localized to cytoplasm. View our protocol for Fluorescent ICC Staining of Cells on Coverslips.





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### **Limitations**

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

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