

# Product Datasheet

## VE-Cadherin Antibody (BV9) - Azide Free NB600-1409

Unit Size: 0.05 mg

Store at 4C.

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### Publications: 7

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**NB600-1409**

VE-Cadherin Antibody (BV9) - Azide Free

| Product Information |                    |
|---------------------|--------------------|
| Unit Size           | 0.05 mg            |
| Concentration       | 0.1 mg/ml          |
| Storage             | Store at 4C.       |
| Clonality           | Monoclonal         |
| Clone               | BV9                |
| Preservative        | No Preservative    |
| Isotype             | IgG2a              |
| Purity              | Protein G purified |
| Buffer              | PBS with 0.1% BSA  |

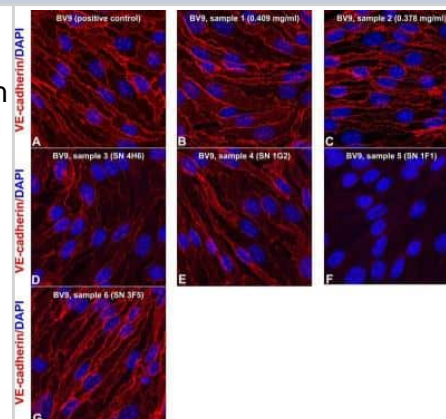
| Product Description     |  |
|-------------------------|--|
| Description             | Novus Biologicals Mouse VE-Cadherin Antibody (BV9) - Azide Free (NB600-1409) is a monoclonal antibody validated for use in IHC, WB, Flow, ICC/IF and IP. Anti-VE-Cadherin Antibody: Cited in 7 publications. All Novus Biologicals antibodies are covered by our 100% guarantee. |
| Host                    | Mouse  |
| Gene ID                 | 1003   |
| Gene Symbol             | CDH5   |
| Species                 | Human  |
| Marker                  | Endothelial Cell Marker  |
| Specificity/Sensitivity | This monoclonal antibody (subclass IgG2a) binds to human VE-cadherin. Human vascular endothelium cadherin is an endothelium-specific cadherin localized at the intercellular junctions.  |
| Immunogen               | The antibody recognizes the extracellular domain of the protein.   |

| Product Application Details |  |
|-----------------------------|--|
| Applications                | Western Blot, Flow Cytometry, Functional, Immunoassay, Immunocytochemistry/Immunofluorescence, Immunohistochemistry, Immunohistochemistry-Frozen, Immunoprecipitation  |
| Recommended Dilutions       | Western Blot 1:10-1:100, Flow Cytometry 1:10-1:100, Immunohistochemistry 1:10-1:500, Immunocytochemistry/ Immunofluorescence 1:10-1:500, Immunoprecipitation 1:10-1:500, Immunohistochemistry-Frozen 1:10-1:500, Functional 10-50 ug/ml, Immunoassay |

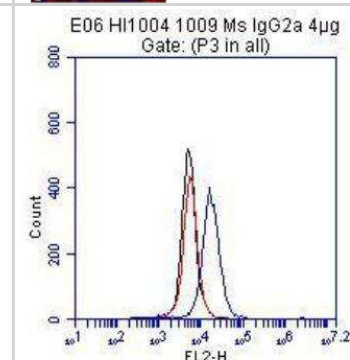


## Images

Immunocytochemistry/Immunofluorescence: VE Cadherin Antibody (BV9) [NB600-1409] - Endothelial cells were fixed with 4% PAF (15 min, room temp), and then permeabilized with 0.5% TritonX-100 (3 min, room temperature). Cells were incubated with a final concentration of 10mg/ml BV9. Secondary detection was performed with anti-mouse Alexa-Fluor 647 and counterstained using DAPI.



Flow Cytometry: VE Cadherin Antibody (BV9) [NB600-1409] - HUVEC cells were stained with antibody BV9 in PBS/0.1% saponin for 1h at 4 degrees C. (Black- no stain, Red- isotype control, Blue-HM2032-BV9)



## Publications

Tryfonos A, Mills J, Green DJ et al. Association between atherogenic risk-modulating proteins and endothelium-dependent flow-mediated dilation in coronary artery disease patients *European Journal of Applied Physiology* 2023-02-01 [PMID: 36305972] (Western Blot, Human)

Depanwita Saha, Debarpan Mitra, Neyaz Alam, Sagar Sen, Saunak Mitra Mustafi, Pradip K Majumder, Biswanath Majumder, Nabendu Murmu Lupeol and Paclitaxel cooperate in hindering hypoxia induced vasculogenic mimicry via suppression of HIF-1 $\alpha$ -EphA2-Laminin-5 $\gamma$ 2 network in human oral cancer. *Journal of cell communication and signaling* 2023-09-01 [PMID: 36063341]

Wang H, Zhang X, Liu Y et al. Diosmetin-7-O- $\beta$ -D-glucopyranoside suppresses endothelial-mesenchymal transformation through endoplasmic reticulum stress in cardiac fibrosis *Clinical and experimental pharmacology & physiology* 2023-07-10 [PMID: 37430476]

Mylvaganam S, Plumb J, Yusuf B et al. The spectrin cytoskeleton integrates endothelial mechanoresponses *Nature cell biology* 2022-07-11 [PMID: 35817960] (ICC/IF, Human)

Details:

ICC/IF Dilution: 4.5  $\mu$ g ml<sup>-1</sup>, WB Dilution: 1:1000

Tryfonos A, Rasoul D, Sadler D et al. Elevated shear rate-induced by exercise increases eNOS ser1177 but not PECAM-1 Tyr713 phosphorylation in human conduit artery endothelial cells *European journal of sport science* 2022-02-23 [PMID: 35195045] (ICC/IF, Human)

Sarveswaran K, Kurz V, Dong Z et al. Synthetic Capillaries to Control Microscopic Blood Flow *Sci Rep* 2016-02-24 [PMID: 26905751] (ICC/IF, Human)

Evangelista K, Franco R, Schwab A. *Leptospira interrogans* Binds to Cadherins. *PLoS Negl Trop Dis* 2014-02-05 [PMID: 24498454] (WB, Human)



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### **Products Related to NB600-1409**

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|             |  |
|-------------|--|
| NBL1-09024  | E-Cadherin Overexpression Lysate                   |
| NBP2-33376H | Blue Marker Antibody (6F4-F6) [HRP]                |
| HAF007      | Goat anti-Mouse IgG Secondary Antibody [HRP]       |
| NB7539      | Goat anti-Mouse IgG (H+L) Secondary Antibody [HRP] |
| NBP1-96778  | Mouse IgG2a Isotype Control (M2A)                  |

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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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