

# Product Datasheet

## VEGF-C Antibody - Azide and BSA Free NB110-61022

Unit Size: 0.1 mg

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

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Updated 2/21/2025 v.20.1

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**NB110-61022**

VEGF-C Antibody - Azide and BSA Free

| <b>Product Information</b>         |   |
|------------------------------------|---|
| <b>Unit Size</b>                   | 0.1 mg  |
| <b>Concentration</b>               | LYOPH mg/ml   |
| <b>Storage</b>                     | Aliquot and store at -20C or -80C. Avoid freeze-thaw cycles.                                      |
| <b>Clonality</b>                   | Polyclonal  |
| <b>Preservative</b>                | No Preservative   |
| <b>Reconstitution Instructions</b> | Reconstitute with sterilized PBS to a final concentration of 0.2 mg/mL.                           |
| <b>Isotype</b>                     | IgG   |
| <b>Purity</b>                      | Protein G purified  |
| <b>Buffer</b>                      | Lyophilized from a 0.2 um filtered solution in PBS. 0.025 mg size is provided in liquid form, PBS |

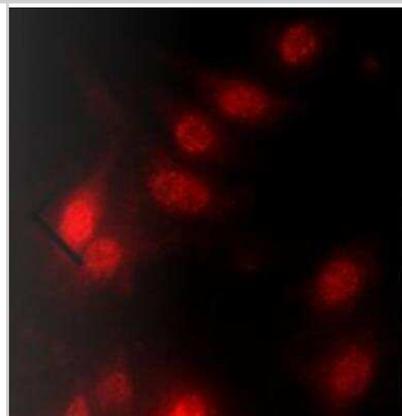
| <b>Product Description</b>     |  |
|--------------------------------|--|
| <b>Host</b>                    | Rabbit   |
| <b>Gene ID</b>                 | 7424   |
| <b>Gene Symbol</b>             | VEGFC  |
| <b>Species</b>                 | Human, Mouse, Rat  |
| <b>Specificity/Sensitivity</b> | This antibody recognizes rat VEGF-C and has strong cross-reactivity with mouse and human VEGF-C. |
| <b>Immunogen</b>               | Rat VEGF-C full length protein   |

| <b>Product Application Details</b> |   |
|------------------------------------|---|
| <b>Applications</b>                | Western Blot, Immunocytochemistry/ Immunofluorescence, Immunohistochemistry, Immunohistochemistry-Frozen, Immunohistochemistry-Paraffin   |
| <b>Recommended Dilutions</b>       | Western Blot 1:500-1:1000, Immunohistochemistry 1:50-1:200, Immunocytochemistry/ Immunofluorescence, Immunohistochemistry-Paraffin 1:50-1:200, Immunohistochemistry-Frozen 1:10-1:500 |

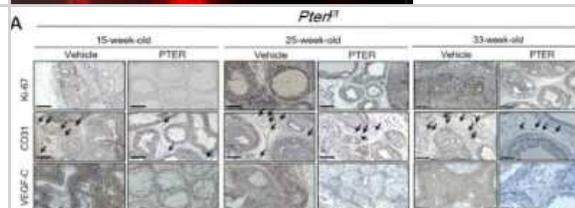


## Images

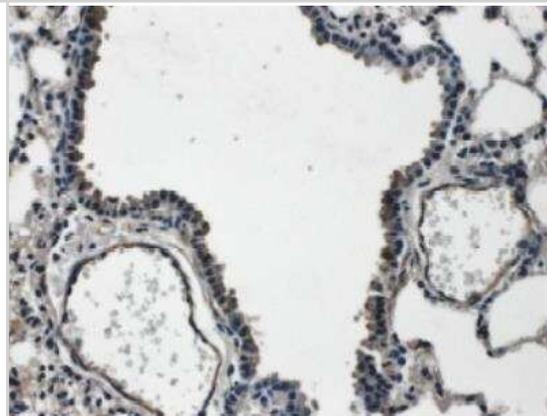
Immunocytochemistry/Immunofluorescence: VEGF-C Antibody [NB110-61022] - bEnd.3 mouse brain endothelioma cell line stained with Vegf-c antibody at 1:500. ICC/IF image submitted by a verified customer review.



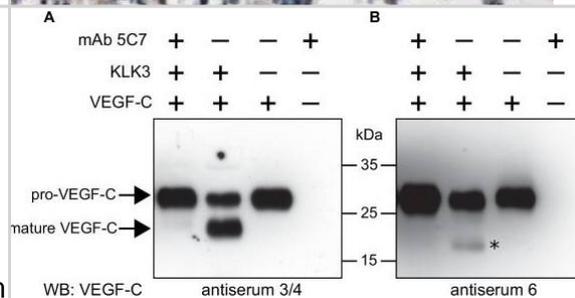
Immunohistochemistry-Paraffin: VEGF-C Antibody [NB110-61022] - Pterostilbene significantly inhibits MTA1-dependent cell proliferation and angiogenesis and induces MTA1-targeted apoptosis in *Ptenf/f* mice (A) Representative Ki-67 (top, each panel), CD31 (middle, each panel) and VEGF-C (bottom, each panel) staining of the prostate tissues from *Ptenf/f* mice treated with vehicle and PTER, at indicated ages. Arrows indicate vessels. Scale bars, 100  $\mu$ m. Image collected and cropped by CiteAb from the following publication (<http://www.oncotarget.com/fulltext/7841>) licensed under a CC-BY license.



Immunohistochemistry: VEGF-C Antibody [NB110-61022] - VEGFC Antibody [NB110-61022] - 4% PFA fixed and paraffin embedded mouse Lung tissue section was subjected to IHC staining of mouse VEGF-C.



Western Blot: VEGF-C Antibody [NB110-61022] - Kallikrein-related peptidase 3 (KLK3)/Prostate specific antigen (PSA) activates VEGF-C. (A, B) Cleavage of pro-VEGF-C by KLK3 (PSA). Pro-VEGF-C was incubated with or without KLK3, with & without the monoclonal antibody against KLK3 (5C7). Detection of VEGF-C in Western blots probed with antiserum 6 & 3/4, resulting in the detection of pro-VEGF-C (29/31 kDa) & activated, mature VEGF-C (21/23 kDa). The band marked by the asterisk likely represents the N-terminal propeptide (~15 kDa) which is detected by the antiserum 6. Note that for the image shown for antiserum 6, two different exposures of the same blot were merged (n = 3). (C, D) VEGF-C processed by KLK3 is biologically active in Ba/F3 cell assays, which translate activation of a hybrid VEGFR/EpoR receptor into cell survival (n = 2). Error bars indicate SD. [10.7554/eLife.44478.004](https://doi.org/10.7554/eLife.44478.004) Figure 1 —source data 1. Ba/F3 assay showing the activity of KLK3-cleaved VEGF-C. Ba/F3 assay showing the activity of KLK3-cleaved VEGF-C. Image collected & cropped by CiteAb from the following publication (<https://pubmed.ncbi.nlm.nih.gov/31099754>), licensed under a CC-BY license. Not internally tested by Novus Biologicals.



## Publications

Butt NA, Kumar A, Dhar S et al. Targeting MTA1/HIF-1a signaling by pterostilbene in combination with histone deacetylase inhibitor attenuates prostate cancer progression. *Cancer Med* 2017-11-01 [PMID: 29024573]

Travisano SI, Harrison MRM, Thornton ME et al. Single-nuclei multiomic analyses identify human cardiac lymphatic endothelial cells associated with coronary arteries in the epicardium *Cell reports* 2023-09-06 [PMID: 37676760] (Zebrafish)

Damon-Soubeyrand C, Bongiovanni A, Chorfa A et al. Three-dimensional imaging of vascular development in the mouse epididymis *eLife* 2023-06-13 [PMID: 37310207]

Travisano S, Harrison M, Thornton M et al. Single nuclei multiomic analyses identify human cardiac lymphatic endothelial cells associated with coronary arteries in the epicardium *bioRxiv* 2023-04-02 (IHC)

Choi, J, J A high-fat diet in the absence of obesity increases lymphangiogenesis by inducing VEGF-C in a murine lymphedema model *Plastic and Reconstructive Surgery* 2022-11-09 [PMID: 36730763]

Ni Y, Wu GH, Cai JJ et al. Tubule-mitophagic secretion of SerpinG1 reprograms macrophages to instruct anti-septic acute kidney injury efficacy of high-dose ascorbate mediated by NRF2 transactivation *International journal of biological sciences* 2022-08-08 [PMID: 35982894] (WB)

Sopo M, Anttila M, Hamalainen K, et al. Expression profiles of VEGF-A, VEGF-D and VEGFR1 are higher in distant metastases than in matched primary high grade epithelial ovarian cancer *BMC Cancer* 2019-06-14 [PMID: 31200683] (IHC-P, Human)

Garcia-Agudo LF, Janova H, Sandler LE et al. KLK3/PSA and cathepsin D activate VEGF-C and VEGF-D *Elife* 2019-05-17 [PMID: 31099754] (WB)

Xiong Y, Liu Z, Zhao X et al. CPT1A regulates breast cancer-associated lymphangiogenesis via VEGF signaling *Biomed. Pharmacother.* 2018-06-22 [PMID: 29940537] (Human)

Dhar S, Kumar A, Zhang L et al. Dietary pterostilbene is a novel MTA1-targeted chemopreventive and therapeutic agent in prostate cancer. *Oncotarget* 2016-04-05 [PMID: 26943043] (WB)

Yoshida S, Hamuy R, Hamada Y et al. Adipose-derived stem cell transplantation for therapeutic lymphangiogenesis in a mouse secondary lymphedema model. *Regen Med.* 2015-08-01 [PMID: 26237700] (IHC-P, Mouse)

Alves de Sousa E, Lourenco SV, de Paiva Prudente F et al. Head and neck squamous cell carcinoma lymphatic spread and survival: Study of the relevance of VEGF family for tumor evaluation. *Head Neck.* 2014-05-14 [PMID: 24824527] (IHC-P, Human)

More publications at <http://www.novusbio.com/NB110-61022>



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### **Products Related to NB110-61022**

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|            |   |
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| HAF008     | Goat anti-Rabbit IgG Secondary Antibody [HRP]       |
| NB7160     | Goat anti-Rabbit IgG (H+L) Secondary Antibody [HRP] |
| NBP2-24891 | Rabbit IgG Isotype Control                          |
| DVE00      | VEGF [HRP]  |

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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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