

Product Datasheet

VEGF Antibody (VG76e) - BSA Free NB100-648

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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Updated 10/23/2024 v.20.1

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NB100-648

VEGF Antibody (VG76e) - 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 | VG76e |
| Preservative | 0.02% Sodium Azide |
| Isotype | IgG1 |
| Purity | Protein G purified |
| Buffer | PBS |
| Target Molecular Weight | 40 kDa |
| Product Description | |
| Host | Mouse |
| Gene ID | 7422 |
| Gene Symbol | VEGFA |
| Species | Human, Rat, Porcine, Bovine, Sheep |
| Reactivity Notes | Mixed results in Cow and Pig (IHC only). Customers have reported success staining sheep tissue (see review). |
| Specificity/Sensitivity | Using recombinant proteins, it was demonstrated that VG76e recognizes the 121, 165, and 189 isoforms of VEGF |
| Immunogen | Recombinant human VEGF189 expressed in E.coli [UniProt# P15692] |
| Product Application Details | |
| Applications | Western Blot, ELISA, Immunocytochemistry/ Immunofluorescence, Immunohistochemistry, Immunohistochemistry-Paraffin, Radioimmunoassay |
| Recommended Dilutions | Western Blot 0.5-2ug/ml, ELISA 1:100-1:2000, Immunohistochemistry 1:200, Immunocytochemistry/ Immunofluorescence 1:50-1:200, Immunohistochemistry-Paraffin 1:200, Radioimmunoassay reported in scientific literature |
| Application Notes | In Western blot a band is observed between 38-44 kDa. With IHC-paraffin sections, microwave treatment with Tris HCl pH 10 buffer (NOT citrate buffer) is necessary. VEGF-A is a hetero dimer, consisting of 2 chains of approximately 24kDa each. |

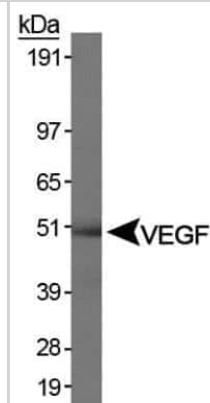


Images

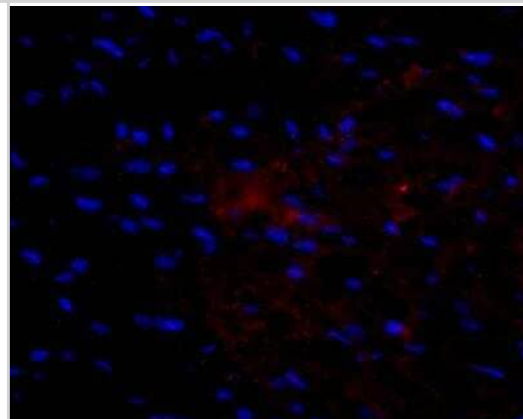
Immunohistochemistry-Paraffin: VEGF Antibody (VG76e) [NB100-648] - IHC analysis of VEGF in fetal sheep brain tissue. Image courtesy of anonymous customer review.



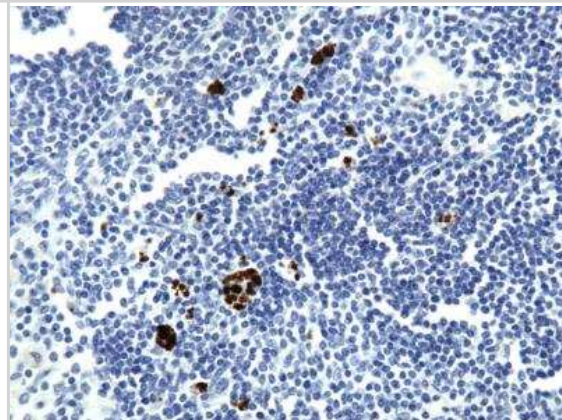
Western Blot: VEGF Antibody (VG76e) [NB100-648] - Analysis of VEGF in human kidney protein (30ug).



Immunocytochemistry/Immunofluorescence: VEGF Antibody (VG76e) [NB100-648] - Immunofluorescent analysis of VEGF using NB100-648. This image submitted through a verified customer review.



Immunohistochemistry-Paraffin: VEGF Antibody (VG76e) [NB100-648] - IHC-P analysis of VEGF in sheep tonsil using NB100-648. This image was submitted through a verified customer review.



Publications

Kim DJ, Hahn HM, Youn YN et al. Adipose Derived Stromal Vascular Fraction and Mesenchymal Stem Cells Improve Angiogenesis in a Rat Hindlimb Ischaemia Model *European journal of vascular and endovascular surgery : the official journal of the European Society for Vascular Surgery* 2023-11-21 [PMID: 37995961] (Immunohistochemistry-Paraffin, Rat)

He H, Zhang H, Pan Y et al. Low oxygen concentration improves yak oocyte maturation and inhibits apoptosis through HIF-1 and VEGF Reproduction in domestic animals = *Zuchthygiene* 2021-12-30 [PMID: 34967955] (IF/IHC)

Dickson MJ, Kvidera SK, Horst EA et al. Impacts of chronic and increasing lipopolysaccharide exposure on production and reproductive parameters in lactating Holstein dairy cows *J. Dairy Sci.* 2019-02-06 [PMID: 30738665] (WB, Bovine)

Huang YC, Xiao J, Leung VY et al. Lumbar intervertebral disc allograft transplantation: the revascularisation pattern. *Eur Spine J* 2018-03-01 [PMID: 29214370]

Iwai R, Nemoto Y, Nakayama Y. Preparation and characterization of directed, one-day-self-assembled millimeter-size spheroids of adipose-derived mesenchymal stem cells. *J Biomed Mater Res A* 2015-09-19 [PMID: 26386244] (IF/IHC, Rat)

Nishimiya K, Matsumoto Y, Shindo T et al. Association of Adventitial Vasa Vasorum and Inflammation With Coronary Hyperconstriction After Drug-Eluting Stent Implantation in Pigs *In Vivo Circ. J.* 2015-06-01 [PMID: 26027445] (IHC-P, Porcine)

Xu X, Mao W, Chai Y et al. Angiogenesis Inhibitor, Endostar, Prevents Vasa Vasorum Neovascularization in a Swine Atherosclerosis Model. *J Atheroscler Thromb* 2015-05-26 [PMID: 26016418] (WB)

Yoshizawa Sayuri, Brown Andrew, Barchowsky Aaron, Sfeir Charles. Role of magnesium ions on osteogenic response in bone marrow stromal cells. *Connect Tissue Res.* 2014-08-01 [PMID: 25158202] (WB, Human)

Yoshizawa S, Brown A, Barchowsky A. Magnesium ion stimulation of bone marrow stromal cells enhances osteogenic activity, simulating the effect of magnesium alloy degradation. *Acta Biomater* 2014-02-24 [PMID: 24512978] (WB, Human)

Yu R, Dhall D, Nissen NN et al. Pancreatic neuroendocrine tumors in glucagon receptor-deficient mice. *PLoS ONE* 20116(8). [PMID: 21853126]

Mannheim D et al. Impaired myocardial perfusion reserve in experimental hypercholesterolemia is independent of myocardial neovascularization. *Am J Physiol Heart Circ Physiol*;2925:H2449-58. 2007-05-01 [PMID: 17208989] (WB, Porcine)

Fraser HM, Dickson SE, Lunn SF, Wulff C, Morris KD, Carroll VA, Bicknell R. Suppression of luteal angiogenesis in the primate after neutralization of vascular endothelial growth factor. *Endocrinology*;1413:995-1000. 2000-03-01 [PMID: 10698175]

More publications at <http://www.novusbio.com/NB100-648>





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Products Related to NB100-648

| | |
|------------------|---|
| NBL1-17712 | VEGF Overexpression Lysate |
| 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) |

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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