

# Product Datasheet

## VEGF Antibody (VG76e) - BSA Free NB100-648SS

Unit Size: 0.025 ml

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

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**Reviews: 5 Publications: 15**

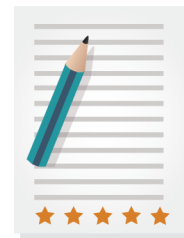
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**NB100-648SS**

VEGF Antibody (VG76e) - BSA Free

Product Information	
Unit Size	0.025 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.

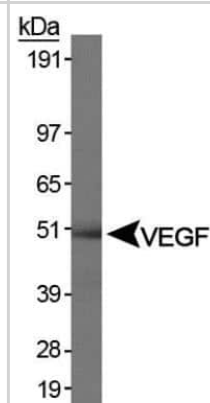


## Images

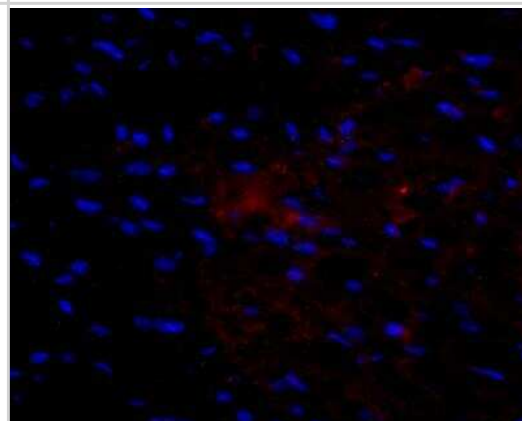
Immunohistochemistry-Paraffin: VEGF Antibody (VG76e) [NB100-648] - IHC analysis of VEGF in fetal sheep brain tissue. Image courtesy of anonymous customer review.



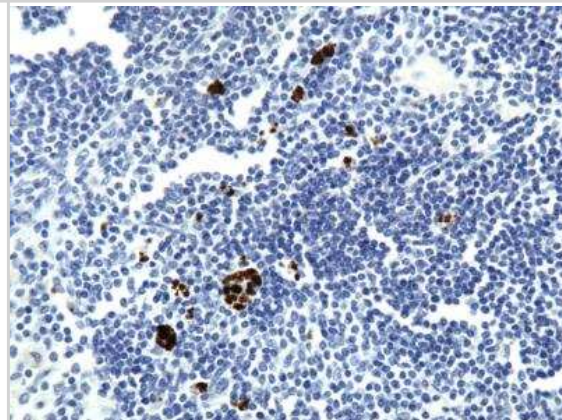
Western Blot: VEGF Antibody (VG76e) [NB100-648] - Analysis of VEGF in human kidney protein (30ug).



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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### **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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