

# Product Datasheet

## VEGF Antibody 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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Updated 6/15/2014 v.20.1

**NB100-648SS**

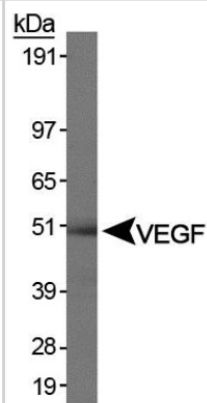
## VEGF Antibody (VG76e)

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	No Preservative
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, Bovine, Porcine, Sheep
Species Reactivity	Human. Mixed results in Cow and Pig (IHC only). Customers have reported success staining sheep tissue (see review).
Immunogen	Recombinant human VEGF189 expressed in E.coli [UniProt# P15692]
Product Application Details	
Applications	Western Blot, ELISA, Immunocytochemistry/Immunofluorescence, Immunohistochemistry, Immunohistochemistry-Paraffin, Immunoprecipitation, Radioimmunoassay
Recommended Dilutions	ELISA 1:100-1:2000, Immunocytochemistry/Immunofluorescence 1:50-1:200, Immunohistochemistry 1:200, Immunohistochemistry-Paraffin 1:200, Immunoprecipitation 1:10-1:500, Radioimmunoassay, Western Blot 0.5-2ug/ml
Application Notes	This VEGF antibody is useful for Western blot, Immunoprecipitation, ELISA, Immunocytochemistry/Immunofluorescence and Immunohistochemistry (Formalin-fixed paraffin-embedded sections).Radioimmunoassay was reported in scientific literature. 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.

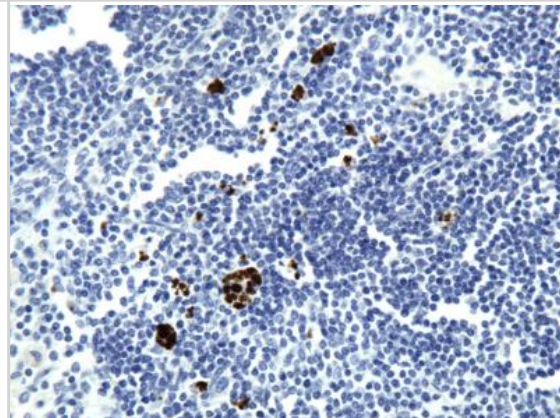


## Images

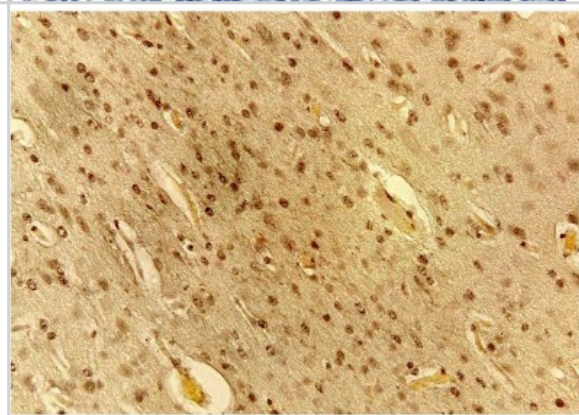
Western Blot: VEGF Antibody (VG76e) [NB100-648] - Analysis of VEGF in human kidney protein (30ug).



Immunohistochemistry-Paraffin: VEGF Antibody (VG76e) [NB100-648] - Vegf in sheep tonsil. Image from verified customer review.



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



## Publications

Yoshizawa S, Brown A, Barchowsky A, Sfeir C. Role of magnesium ions on osteogenic response in bone marrow stromal cells. *Connect Tissue Res.* 2014 Aug 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 Feb 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 May. [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 Mar. [PMID: 10698175]

Zhang L et al. Validation of anti-vascular endothelial growth factor anti-VEGF antibodies for immunohistochemical localization of VEGF in tissue sections: expression of VEGF in the human endometrium. *J Pathol*;1854:402-8. 1998 Aug. [PMID: 9828839] (IHC, Human )

Brown NS, Streeter EH, Jones A, Harris AL, Bicknell R. Cooperative stimulation of vascular endothelial growth factor expression by hypoxia and reactive oxygen species: the effect of targeting vascular endothelial growth factor and oxidative stress in an orthotopic xenograft model of bladder carcinoma. *Br J Cancer*;929:1696-701. 2005 May 9. [PMID: 15841086]

Collingridge DR, Carroll VA, Glaser M, Aboagye EO, Osman S, Hutchinson OC, Barthel H, Luthra SK, Brady F, Bicknell R, Price P, Harris AL. The development of [124I]iodinated-VG76e: a novel tracer for imaging vascular endothelial growth factor in vivo using positron emission tomography. *Cancer Res.* 6220:5912-9. 2002 Oct 15. [PMID: 12384557] (RIA, Human)





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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.

**For more information on our guarantee, please visit [www.novusbio.com/guarantee](http://www.novusbio.com/guarantee).**

