

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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NB100-648

VEGF Antibody (VG76e) - BSA Free

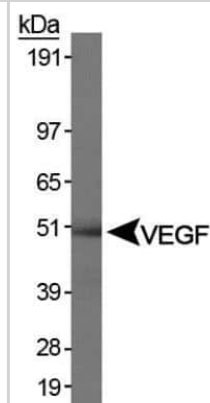
Product Information	
Unit Size	0.1 ml
Concentration	1 mg/ml
Storage	Store at 4C short term. Aliquot and store at -20C long term. Avoid freeze-thaw cycles.
Clonality	Monoclonal
Clone	VG76e
Preservative	0.02% Sodium Azide
Isotype	IgG1
Purity	Protein G purified
Buffer	PBS
Target Molecular Weight	40 kDa
Product Description	
Description	Novus Biologicals Mouse VEGF Antibody (VG76e) - BSA Free (NB100-648) is a monoclonal antibody validated for use in IHC, WB, ELISA and ICC/IF. Anti-VEGF Antibody: Cited in 15 publications. All Novus Biologicals antibodies are covered by our 100% guarantee.
Host	Mouse
Gene ID	7422
Gene Symbol	VEGFA
Species	Human, Rat, Porcine, Bovine, Goat, Sheep
Reactivity Notes	Mixed results in Cow and Pig (IHC only). Customers have reported success staining sheep tissue (see review). Goat reactivity reported from a verified customer 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, Immunohistochemistry-Paraffin, ELISA, Immunocytochemistry/Immunofluorescence, Immunohistochemistry, 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

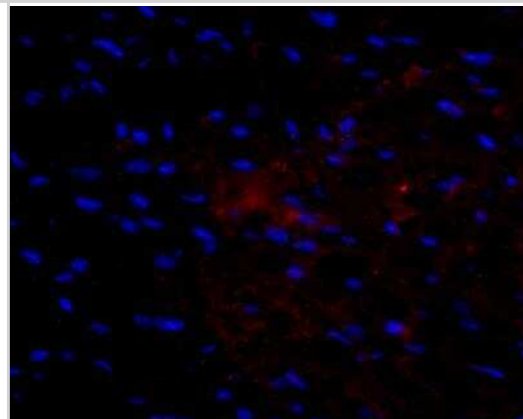
Immunohistochemistry-Paraffin: VEGF Antibody (VG76e) [NB100-648] - IHC analysis of VEGF in fetal sheep brain tissue. Image courtesy of anonymous customer review.



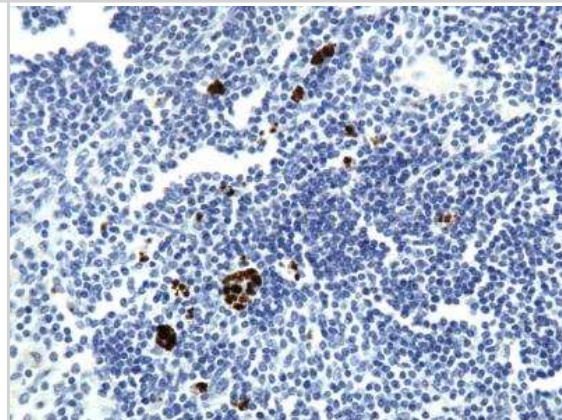
Western Blot: VEGF Antibody (VG76e) [NB100-648] - Analysis of VEGF in human kidney protein (30ug).



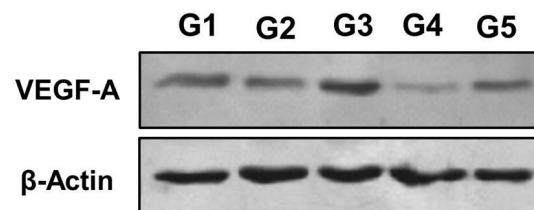
Immunocytochemistry/Immunofluorescence: VEGF Antibody (VG76e) [NB100-648] - Immunofluorescent analysis of VEGF using NB100-648. This image submitted through a verified customer review.



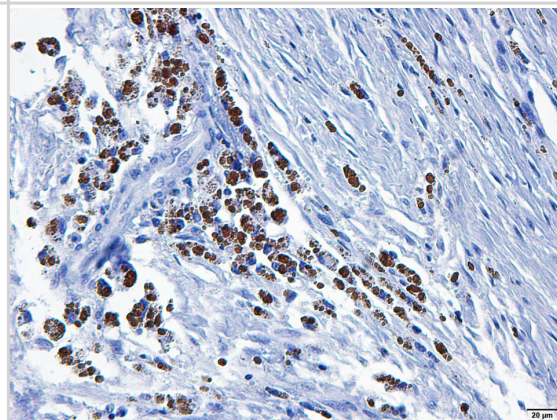
Immunohistochemistry-Paraffin: VEGF Antibody (VG76e) [NB100-648] - IHC-P analysis of VEGF in sheep tonsil using NB100-648. This image was submitted through a verified customer review.



Western Blot: Mouse Monoclonal VEGF Antibody (VG76e) [NB100-648] - Bone lysate homogenate from goats. SDS-PAGE with 0.3 mg of total protein from the homogenate per well. VEGF, NB100-648, was used at a dilution of 1:1000 in TBS Tween and 5% milk powder. The protein was labeled at 40 kDa. Quantification of VEGFA in bone graft in the tibia of intrailiac cellularized goats at different times compared with tibial autograft and untreated bone defect. Evaluation of pre-cellularized graft in iliac crest in the treatment of bone defects in the tibia of goats. G1: cellularized graft for 4 weeks applied to tibial bone defect, G2: cellularized graft for 6 weeks applied to tibial bone defect, G3: cellularized graft for 8 weeks applied to tibial bone defect, G4: tibial autograft and G5: untreated bone defect. All groups were evaluated 120 days after graft implantation. Image from a verified customer review.



The sections of histological sections of goat fragments were deparaffinized, peroxidase blocked in methanol and 30% hydrogen peroxide (9:1), and antigen retrieval was performed with porcine gastric pepsin and HCl at pH 3.0 in an oven at 37°C for 30 minutes. Then, blocking with BSA was performed for 1 hour followed by incubation with primary antibody VEGF antibody NB100-648 (1:100) overnight. Subsequently, excess primary antibody was removed with PBS pH 7.6 and incubated with secondary antibody (goat anti-mouse IgG - NB7539 (1:200) for 1 hour and application of polymer for 30 minutes. Finally, 150 μ L of DAB was applied for five minutes and counterstained with hematoxylin. Image from a verified customer review.



Publications

Chao, HW;Chao, WW;Chao, HM; Catalpol Protects Against Retinal Ischemia Through Antioxidation, Anti-Ischemia, Downregulation of β -Catenin, VEGF, and Angiopoietin-2: In Vitro and In Vivo Studies International journal of molecular sciences 2025-04-24 [PMID: 40362263]

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)

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



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Products Related to NB100-648

NBL1-17712	VEGF 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]
NBP1-97005-0.5mg	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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