Product Datasheet

VEGF Antibody - BSA Free
NB100-2381

Unit Size: 0.1 ml

Store at 4C. Do not freeze.

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Publications: 7

Protocols, Publications, Related Products, Reviews, Research Tools and Images at:
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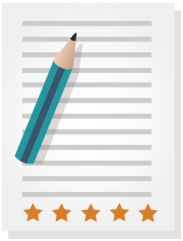
Updated 9/9/2025 v.20.1



NB100-2381

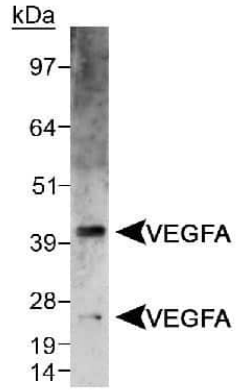
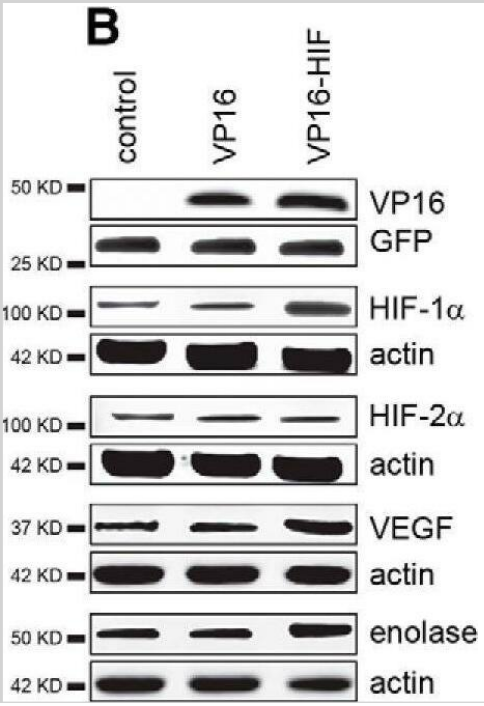
VEGF Antibody - BSA Free

Product Information	
Unit Size	0.1 ml
Concentration	1.0 mg/ml
Storage	Store at 4C. Do not freeze.
Clonality	Polyclonal
Preservative	0.09% Sodium Azide
Isotype	IgG
Purity	Immunogen affinity purified
Buffer	PBS

Product Description	
Description	Novus Biologicals Rabbit VEGF Antibody - BSA Free (NB100-2381) is a polyclonal antibody validated for use in WB and ELISA. Anti-VEGF Antibody: Cited in 6 publications. All Novus Biologicals antibodies are covered by our 100% guarantee.
Host	Rabbit
Gene ID	7422
Gene Symbol	VEGFA
Species	Human, Mouse, Rat, Bovine, Canine, Chicken, Equine, Guinea Pig
Immunogen	A synthetic peptide made to an internal region of the human VEGFA protein sequence (between residues 180-232). [Swiss-Prot: P15692]

Product Application Details	
Applications	Western Blot, ELISA
Recommended Dilutions	Western Blot 1 ug/mL, ELISA 1:500
Application Notes	In Western blot , a band is seen at ~42 kDa with a chimera transfected lysate representing the homodimer VEGFA. Another faint band is seen at ~21 kDa, representing the monomer form of VEGFA. The observed molecular weight of the protein may vary from the listed predicted molecular weight due to post translational modifications, post translation cleavages, relative charges, and other experimental factors. This antibody did not work in IHC.

Images

Western Blot: VEGF Antibody [NB100-2381] - Detection of VEGFA doublet in CSF-IR/VEGFA chimera transfected lysate using.	
HIF-1α protein and HIF-1α target genes are elevated in SCs following retrovirus administration. Expression of mRNA for VP16, HIF-1α, and β-actin in transfected SCs was confirmed by PCR in VP16 and VP16-HIF SCs (A). Protein expression of VP16, HIF-1α, HIF-2α, VEGF, enolase, and protein loading controls (GFP or β-actin) in transfected SCs was assessed by western blotting (B). Protein expression was normalized to the loading control. Relative intensity of VP16 expression is shown in C, and the fold change in protein expression relative to control SCs is shown for HIF-1α (D) HIF-2α (E), VEGF (F), and enolase (G). Values are as follows: VP16 (control: 0.0 +/- 0.0; VP16: 0.40 +/- 0.01; VP16-HIF: 0.41 +/- 0.00); HIF-1α (control: 1.0 +/- 0.04; VP16: 1.0 +/- 0.04; VP16-HIF: 5.9 +/- 0.01); HIF-2α (control: 1.0 +/- 0.01; VP16: 1.0 +/- 0.01; VP16 -HIF: 1.0 +/- 0.02); VEGF (control: 1.0 +/- 0.01; VP16: 1.02 +/- 0.02; VP16-HIF: 2.2 +/- 0.01); enolase (control: 1.0 +/- 0.01; VP16: 1.0 +/- 0.04; VP16-HIF: 1.7 +/- 0.00); n = 3/group. Mean +/- SEM, *p < 0.0001. Figure Contributions: Veena Kandaswamy generated the VP16-HIF cells. Veena Kandaswamy performed the PCRs. Ying Dai performed the western blottings. Ying Dai and Caitlin Hill analyzed the data. Image collected and cropped by CiteAb from the following open publication (https://pubmed.ncbi.nlm.nih.gov/31488552), licensed under a CC-BY license. Not internally tested by Novus Biologicals.	

Publications

David BT, Curtin JJ, Brown JL et al. Treatment with hypoxia-mimetics protects cultured rat Schwann cells against oxidative stress-induced cell death Glia 2021-05-21 [PMID: 34019306]

Mohammed Rabiul Hosen, Qian Li, Yangyang Liu, Andreas Zietzer, Katharina Maus, Philip Goody, Shizuka Uchida, Eicke Latz, Nikos Werner, Georg Nickenig, Felix Jansen CAD increases the long noncoding RNA PUNISHER in small extracellular vesicles and regulates endothelial cell function via vesicular shuttling Molecular Therapy. Nucleic Acids 2021-06-04 [PMID: 34484864]

David BT, Curtin JJ, Goldberg DC et al. Hypoxia Inducible Factor 1 alpha (HIF-1 alpha) counteracts the acute death of cells transplanted into the injured spinal cord eNeuro [PMID: 31488552] (WB)

Lin X, Ma Y, Qian T et al. Basic Fibroblast Growth Factor Promotes Prehierarchical Follicle Growth and Yolk Deposition in the Chicken Theriogenology 2019-07-01 [PMID: 31400551] (WB, Chicken)

Lu Z, Lin V, May A et al. HTRA1 synergizes with oxidized phospholipids in promoting inflammation and macrophage infiltration essential for ocular VEGF expression PLoS ONE 2019-05-17 [PMID: 31100080] (ELISA, Human, Mouse)

Soto SF, Melo JO, Marchesi GD et al. Exposure to fine particulate matter in the air alters placental structure and the renin-angiotensin system PLoS ONE 2017-08-18 [PMID: 28820906] (ELISA, Rat)

Su L, Rao K, Guo F et al. In ovo leptin administration inhibits chorioallantoic membrane angiogenesis in female chicken embryos through the STAT3-mediated vascular endothelial growth factor (VEGF) pathway. Domest Anim Endocrinol 2012-07-01 [PMID: 22417645]

Procedures

Western Blot protocol for VEGF Antibody (NB100-2381)
VEGF Antibody:
Western Blot Protocol

1. Perform SDS-PAGE (4-12%) on samples to be analyzed.

2. Transfer proteins to Nitrocellulose according to the instructions provided by the manufacturer of the transfer apparatus.

3. Rinse membrane with dH2O and then stain the blot using ponceau S for 1-2 minutes to access the transfer of proteins onto the nitrocellulose membrane. Rinse the blot in water to remove excess stain and mark the lane locations and locations of molecular weight markers using a pencil.

4. Rinse the blot in TBS for approximately 5 minutes.

5. Block the membrane using 5% non-fat dry milk + 1% BSA in TBS for 1 hour at room temperature.

6. Rinse the membrane in dH2O and then wash the membrane in wash buffer [TBS + 0.1% Tween] 3 times for 10 minutes each.

7. Dilute the rabbit anti-VEGFA primary antibody (NB 100-2381) in blocking buffer and incubate 1 hour at room temperature.

8. Rinse the membrane in dH2O and then wash the membrane in wash buffer [TBS + 0.1% Tween] 3 times for 10 minutes each.

9. Apply the diluted rabbit-IgG HRP-conjugated secondary antibody in blocking buffer (as per manufacturer's instructions) and incubate 1 hour at room temperature.

10. Wash the blot in wash buffer [TBS + 0.1% Tween] 3 times for 10 minutes each (this step can be repeated as required to reduce background).

11. Apply the detection reagent of choice in accordance with the manufacturer's instructions (we used BioFX Super Plus ECL).

Note: Tween-20 can be added to the blocking or antibody dilution buffer at a final concentration of 0.05-0.2%, provided it does not interfere with antibody-antigen binding.

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Products Related to NB100-2381

NBL1-17712	VEGF Overexpression Lysate
NB100-2381PEP	VEGF Antibody Blocking Peptide
NBP2-33376H	Blue Marker Antibody (6F4-F6) [HRP]
HAF008	Goat anti-Rabbit IgG Secondary Antibody [HRP]
NB7160	Goat anti-Rabbit IgG (H+L) Secondary Antibody [HRP]
NBP2-24891	Rabbit IgG Isotype Control

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 100% guarantee, please visit www.novusbio.com/guarantee

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