

# Product Datasheet

## VEGF Antibody - BSA Free NB100-2381

Unit Size: 0.1 ml

Store at 4C. Do not freeze.

[www.novusbio.com](http://www.novusbio.com)



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### Publications: 6

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**NB100-2381**

VEGF Antibody - BSA Free

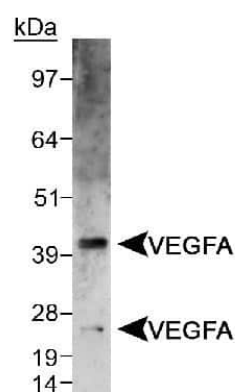
| Product Information |                             |
|---------------------|-----------------------------|
| Unit Size           | 0.1 ml                      |
| Concentration       | 1.0 mg/ml                   |
| Storage             | Store at 4C. Do not freeze. |
| Clonality           | Polyclonal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

| Product Description |   |
|---------------------|---|
| 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.



## Publications

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 dH<sub>2</sub>O 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 dH<sub>2</sub>O 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 dH<sub>2</sub>O 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**

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

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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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