BOSTER
antibody and ELISA experts

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Anti-VEGF/Vegfa/VEGF164 Antibody Picoband™

Catalog Number: A00045-1

About Vegfa

VEGF, a homodimeric glycoprotein of relative molecular mass 45,000, is the only mitogen that specifically acts on endothelial cells. It may be a major regulator of tumor angiogenesis in vivo. It is, however, structurally related to platelet-derived growth factor. VEGF shares homology with the PDGF A chain and B chain, including conservation of all 8 cysteines found in PDGFA and PDGFB. VEGF gene contains 8 exons. And VEGF induces remodeling and enhances TH2-mediated sensitization and inflammation in the lung. This gene can also regulate haematopoietic stem cell survival by an internal autocrine loop mechanism. What's more, it also stimulates neurogenesis in vitro and in vivo.

Overview

Product Name	Anti-VEGF/Vegfa/VEGF164 Antibody Picoband™
Reactive Species	Mouse, Rat
Description	Boster Bio Anti-VEGF/Vegfa/VEGF164 Antibody Picoband™ catalog # A00045-1. Tested in ELISA, WB applications. This antibody reacts with Mouse, Rat.
Application	ELISA, WB
Clonality	Polyclonal
Formulation	Each vial contains 4mg Trehalose, 0.9mg NaCl, 0.2mg Na_2HPO_4, 0.05mg NaN_3.
Storage Instructions	Store at -20˚C for one year from date of receipt. After reconstitution, at 4˚C for one month. It can also be aliquotted and stored frozen at -20˚C for six months. Avoid repeated freeze-thaw cycles.
Host	Rabbit
Uniprot ID	Q00731

Technical Details

Immunogen	E. coli-derived mouse VEGF/VEGF164 recombinant protein (Position: A27-R190).
Predicted Reactive Species	Chicken
Recommended Detection Systems	Boster recommends Enhanced Chemiluminescent Kit with anti-Rabbit IgG (EK1002) for Western blot.
Cross Reactivity	No cross-reactivity with other proteins.
Isotype	Rabbit IgG
Form	Lyophilized
Concentration	Adding 0.2 ml of distilled water will yield a concentration of 500 ug/ml.

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Purification	Immunogen affinity purified.
Suggested Dilutions	Dilute the sample so that the expected range of concentrations fall within the detection range of this kit. If the expected range of concentration is unknown, a pilot test should be conducted to decide the optimal dilution ratio for your samples. Some PubMed article(s) citing the expression level of this target are as follows: Boster Bio's internal QC testing used: Western blot, 0.1-0.5ug/ml Direct ELISA, 0.1-0.5ug/ml

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Anti-VEGF/Vegfa/VEGF164 Antibody Picoband™ (A00045-1) Images

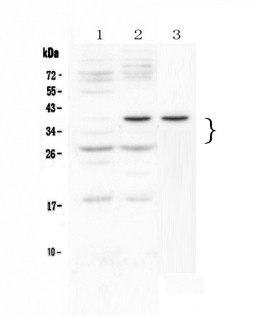

Figure 1. Western blot analysis of VEGF/VEGF164 using anti-VEGF/VEGF164 antibody (A00045-1).
Electrophoresis was performed on a 5-20% SDS-PAGE gel at 70V (Stacking gel) / 90V (Resolving gel) for 2-3 hours. The sample well of each lane was loaded with 50ug of sample under reducing conditions.
Lane 1: mouse thymus tissue lysates,
Lane 2: mouse HEPA1-6 whole cell lysates,
Lane 3: rat C6 whole cell lysates.
After Electrophoresis, proteins were transferred to a Nitrocellulose membrane at 150mA for 50-90 minutes. Blocked the membrane with 5% Non-fat Milk/ TBS for 1.5 hour at RT. The membrane was incubated with rabbit anti-VEGF/VEGF164 antigen affinity purified polyclonal antibody (Catalog # A00045-1) at 0.5 ug/mL overnight at 4°C, then washed with TBS-0.1%Tween 3 times with 5 minutes each and probed with a goat anti-rabbit IgG-HRP secondary antibody at a dilution of 1:10000 for 1.5 hour at RT. The signal is developed using an Enhanced Chemiluminescent detection (ECL) kit (Catalog # EK1002) with Tanon 5200 system. A specific band was detected for VEGF/VEGF164 at approximately 27KD, 40KD. The expected band size for VEGF/VEGF164 is at 25KD.

50 Publications Citing This Product

1. PubMed ID: 10.1016/j.exer.2021.108769, The role of bone morphogenetic protein 4 in corneal injury repair

2. PubMed ID: 30910640, Zhou D,Huang X,Xie Y,Deng Z,Guo J,Huang H.Astrocytes-derived VEGF exacerbates the microvascular damage of late delayed RBI.Neuroscience.2019 Jun 1;408:14-21.doi:10.1016/j.neuroscience.2019.03.039.Epub 2019 Mar 22.PMID:30910640.

3. PubMed ID: 18416455, Li Jk, Yu L, Shen Y, Zhou Ls, Wang Yc, Zhang Jh. World J Gastroenterol. 2008 Apr 21;14(15):2308-13. Inhibition Of Cxcr4 Activity With Amd3100 Decreases Invasion Of Human Colorectal Cancer Cells In Vitro.

Visit bosterbio.com/anti-vegf-picoband-trade-antibody-a00045-1-boster.html to see all 50 publications.

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