BOSTER BIOLOGICAL TECHNOLOGY
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Anti-VEGF/Vegfa Antibody Picoband®

Catalog Number: A00045

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.

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Overview

Product Name	Anti-VEGF/Vegfa Antibody Picoband®
Reactive Species	Mouse, Rat
Description	Boster Bio Anti-VEGF/Vegfa Antibody Picoband® catalog # A00045. Tested in WB applications. This antibody reacts with Mouse, Rat. The brand Picoband indicates this is a premium antibody that guarantees superior quality, high affinity, and strong signals with minimal background in Western blot applications. Only our best-performing antibodies are designated as Picoband, ensuring unmatched performance.
Application	WB
Clonality	Polyclonal
Formulation	Each vial contains antibody formulated with stabilizing components, 0.9 mg NaCl, 0.2 mg Na2HPO4, and 0.05 mg NaN3. *This antibody is supplied in a stabilized formulation. Compatibility with conjugation reactions depends on the chemistry of the conjugation method used. For conjugation methods that are not compatible with the stabilizing components present in this formulation, a carrier-free antibody format is required.
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

BOSTER
antibody and ELISA experts

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Immunogen	E.coli-derived mouse VEGF recombinant protein (Position: A27-R214). Mouse VEGF shares 89.4% and 98.4% amino acid (aa) sequence identity with human and rat VEGF, respectively.
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.
Purification	Immunogen affinity purified.
Suggested Dilutions	Western blot, 0.1-0.5ug/ml, Rat, Mouse

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Anti-VEGF/Vegfa Antibody Picoband® (A00045) Images



Western blot analysis of VEGF using anti-VEGF antibody (A00045). 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 30 ug of sample under reducing conditions. Lane 1: rat kidney tissue lysates. After electrophoresis, proteins were transferred to a nitrocellulose membrane at 150 mA 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 antigen affinity purified polyclonal antibody (Catalog # A00045) 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 1:5000 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 at approximately 27 kDa.

52 Publications Citing This Product

1. PubMed ID: 10.3892/ijmm.2011.741, Id1 induces tubulogenesis by regulating endothelial cell adhesion and cytoskeletal organization through beta1-integrin and Rho-kinase signalling

2. PubMed ID: 10.1016/j.ejphar.2007.03.057, Blockage of the formation of new blood vessels by recombinant human endostatin contributes to the regression of rat adjuvant arthritis

3. PubMed ID: 10.1111/j.2042-7158.2011.01382.x, Dexmedetomidine protects against oxygen–glucose deprivation-induced injury through the I2 imidazoline receptor-PI3K/AKT pathway in rat C6 glioma cells

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