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Anti-VEGF Receptor 2/KDR Antibody Picoband™

Catalog Number: PB9429

About KDR

KDR (Kinase Insert Domain Receptor), also known as FLK1, VEGFR or VEGFR2, is a VEGF receptor. KDR is the human gene encoding it. Sait et al. (1995) likewise corrected the assignment to chromosome 4q11-q12 to the same region occupied also by PDGFRA and KIT, thus indicating the location of a cluster of receptor tyrosine kinase genes. Vascular endothelial growth factor (VEGF) is the only mitogen that specifically acts on endothelial cells. Its expression is upregulated by hypoxia, and its cell-surface receptor, known as fetal liver kinase-1 (Flk1) in mouse, is exclusively expressed in endothelial cells (Plate et al., 1993). Flk1 is the mouse homolog of KDR (Matthews et al., 1991).

Overview

Product Name	Anti-VEGF Receptor 2/KDR Antibody Picoband™
Reactive Species	Human
Description	Boster Bio Anti-VEGF Receptor 2/KDR Antibody Picoband™ catalog # PB9429. Tested in WB applications. This antibody reacts with Human.
Application	WB
Clonality	Polyclonal
Formulation	Each vial contains 5mg BSA, 0.9mg NaCl, 0.2mg Na2HPO4, 0.05mg NaN3.
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	P35968

Technical Details

Immunogen	A synthetic peptide corresponding to a sequence at the N-terminus of human KDR, different from the related mouse and rat sequences by three amino acids.
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, Human

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Anti-VEGF Receptor 2/KDR Antibody Picoband™ (PB9429) Images

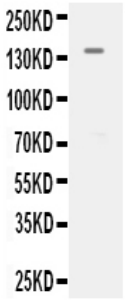

Figure 1. Western blot analysis of KDR using anti-KDR antibody (PB9429).
Electrophoresis was performed on a 5-20% SDS-PAGE gel at 70V (Stacking gel) / 90V (Resolving gel) for 2-3 hours.
Lane 1: MCF-7 Whole Cell Lysate at 40ug.
After electrophoresis, proteins were transferred to a nitrocellulose membrane 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-KDR antigen affinity purified polyclonal antibody (Catalog # PB9429) 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 KDR at approximately 152 kDa. The expected band size for KDR is at 152 kDa.

6 Publications Citing This Product

1. PubMed ID: 23671638, Wu Y, You H, Ma P, Li L, Yuan Y, Li J, Ye X, Liu X, Yao H, Chen R, Lai K, Yang X. Plos One. 2013 May 9;8(5):E62827. Doi: 10.1371/Journal.Pone.0062827. Print 2013. Role Of Transient Receptor Potential Ion Channels And Evoked Levels Of Neuropeptides...

2. PubMed ID: 23946799, Wang L, Liu X, Wang H, Wang S. Oncol Lett. 2013 Jul;6(1):175-180. Epub 2013 May 15. Correlation Of The Expression Of Vascular Endothelial Growth Factor And Its Receptors With Microvessel Density In Ovarian Cancer.

3. PubMed ID: 25009634, Zhu Y, Tuerxun A, Hui Y, Abliz P. Exp Ther Med. 2014 Aug;8(2):647-651. Epub 2014 Jun 12. Effects Of Propranolol And Isoproterenol On Infantile Hemangioma Endothelial Cells In Vitro.

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