Product datasheet

Anti-VEGF/VEGFA Antibody

Catalog Number: *PB9071*

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antibody and ELISA experts
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Basic Information

Product Name	Anti-VEGF/VEGFA Antibody
Gene Name	VEGFA
Source	Rabbit
Isotype	IgG
Species Reactivity	human, mouse, rat
Tested Application	WB, IHC, FCM
Contents	500 ug/ml antibody with PBS， 0.02% NaN3 , 1 mg BSA and 50% glycerol.
Immunogen	E.coli-derived human VEGF recombinant protein (Position: A27-R191). Human VEGF shares 78% amino acid (aa) sequence identity with both mouse and rat VEGF.
concentration	500 ug/ml
Purification	Immunogen affinity purified.
Observed MW	27KD
Dilution Ratios	Western blot(WB): 1:500-2000 Immunohistochemistry in paraffin section (IHC): 1:50-400 Flow cytometry (FCM): 1-3 μg/1x10^6 cells (Boiling the paraffin sections in 10mM citrate buffer,pH6.0,or PH8.0 EDTA repair liquid for 23 mins is required for the staining of formalin/paraffin sections.) Optimal working dilutions must be determined by end user.

Storage

12 months from date of receipt，-20℃ as supplied. 6 months 2 to 8℃ after reconstitution. Avoid repeated freezing and thawing.

Background Information

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. VEGF induces remodeling and enhances TH2-mediated sensitization and inflammation in the lung. And this gene also can regulate haematopoietic stem cell survival by an internal autocrine loop mechanism. What’s more, it also stimulates neurogenesis in vitro and in vivo.

Reference

Anti-VEGF/VEGFA Antibody被引用在4文献中。

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Selected Validation Data

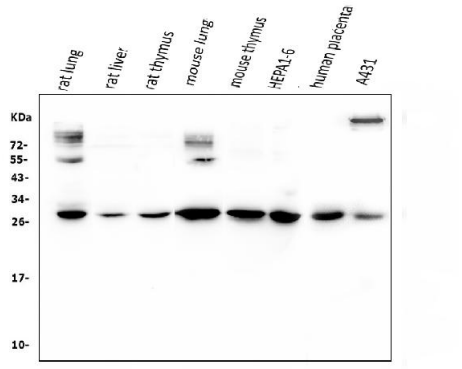

Figure 1. Western blot analysis of VEGF using anti-VEGF antibody (PB9071).The sample well of each lane was loaded with 50ug of sample under reducing conditions.Lane 1: rat lung tissue lysate,Lane 2: rat lver tissue lysate,Lane 3: rat thymus tissue lysate,Lane 4: mouse lung tissue lysate,Lane 5: mouse thymus tissue lysate,Lane 6: HEPA1-6 whole cell lysate,Lane 7: human placenta tissue lysate,Lane 8: A431 whole cell lysate,Use rabbit anti- VEGF 1:1000, probed with a goat anti-rabbit IgG-HRP secondary antibody. The signal is developed using an Enhanced Chemiluminescent detection (ECL) kit (Catalog # EK1002). A specific band was detected for VEGF at approximately 27KD. The expected band size for VEGF is at 27KD.

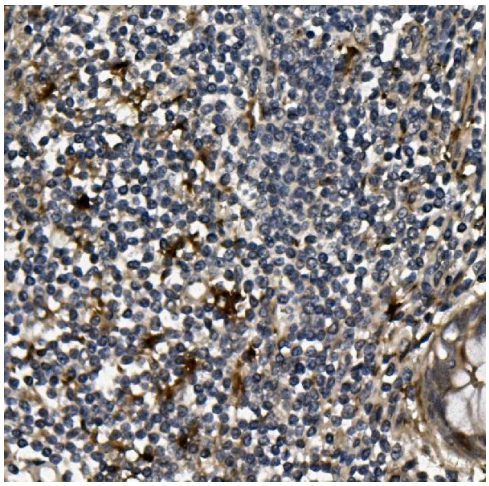

Figure 2.IHC analysis using anti- VEGF antibody (PB9071). detected in paraffin-embedded section of human rectal cancer tissue. Biotinylated goat anti-rabbit IgG was used as secondary antibody. The tissue section was developed using Strepavidin-Biotin-Complex (SABC) (Catalog # SA1022) with DAB as the chromogen.

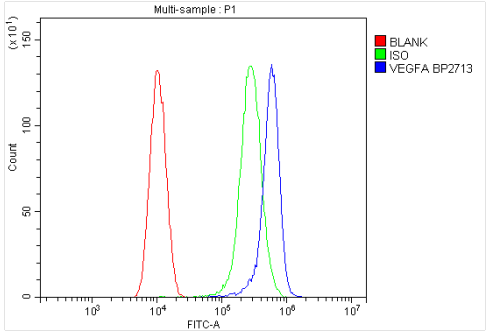

Figure 5.Flow cytometry analysis of SiHa cell HELA(1x106) DyLight 488 conjugated goat anti-rabbit IgG(blue) was used as secondary antibody.Isotype control antibody (Green line) was rabbit IgG DyLight 488. Unlabelled sample (Red line).