

Datasheet for ABIN5518798
anti-VEGFA antibody (AA 27-214)



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Overview

Quantity:	100 µg
Target:	VEGFA
Binding Specificity:	AA 27-214
Reactivity:	Rat
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This VEGFA antibody is un-conjugated
Application:	Western Blotting (WB)

Product Details

Purpose:	Rabbit IgG polyclonal antibody for Vascular endothelial growth factor A(Vegfa) detection. Tested with WB in Mouse,Rat.
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.
Isotype:	IgG
Cross-Reactivity (Details):	Predicted Cross Reactivity: mouse No cross reactivity with other proteins. Predicted Cross Reactivity: Species predicted to be fit for the product based on sequence similarities.
Characteristics:	Rabbit IgG polyclonal antibody for Vascular endothelial growth factor A(Vegfa) detection. Tested with WB in Mouse,Rat.

Product Details

Gene Name: vascular endothelial growth factor A
Protein Name: Vascular endothelial growth factor A

Purification: Immunogen affinity purified.

Target Details

Target: VEGFA

Alternative Name: Vegfa ([VEGFA Products](#))

Background: 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.

Synonyms: MVCD1 | P15692 | Vascular endothelial growth factor | Vascular permeability factor | VEGF A | VEGF-A | VEGFA | VPF

Gene ID: 22339

UniProt: [Q00731](#)

Pathways: [RTK Signaling](#), [Glycosaminoglycan Metabolic Process](#), [Regulation of Cell Size](#), [Tube Formation](#), [Signaling Events mediated by VEGFR1 and VEGFR2](#), [Platelet-derived growth Factor Receptor Signaling](#), [VEGFR1 Specific Signals](#), [VEGF Signaling](#)

Application Details

Application Notes: WB: Concentration: 0.1-0.5 µg/mL, Tested Species: Rat, Predicted Species: Mouse
Notes: Tested Species: Species with positive results. Predicted Species: Species predicted to be fit for the product based on sequence similarities.
Other applications have not been tested. Optimal dilutions should be determined by end users.

Comment: Antibody can be supported by chemiluminescence kit ABIN921124 in WB.

Restrictions: For Research Use only

Handling

Format:	Lyophilized
Reconstitution:	Add 0.2 mL of distilled water will yield a concentration of 500 µg/mL.
Concentration:	500 µg/mL
Buffer:	Each vial contains 5 mg BSA, 0.9 mg NaCl, 0.2 mg Na ₂ HPO ₄ , 0.05 mg Sodium azide.
Preservative:	Sodium azide
Precaution of Use:	This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.
Storage:	4 °C, -20 °C
Storage Comment:	At -20°C for one year. After reconstitution, at 4°C for one month. It can also be aliquotted and stored frozen at -20 °C for a longer time. Avoid repeated freezing and thawing.

Publications

Product cited in:	<p>Zhang, Chu, Liu, Coates, Shang, Li: "Deer thymosin beta 10 functions as a novel factor for angiogenesis and chondrogenesis during antler growth and regeneration." in: Stem cell research & therapy, Vol. 9, Issue 1, pp. 166, (2019) (PubMed).</p> <p>Liu, Kuang, Wu, Jin, Sun: "A novel polysaccharide from Sargassum integerrimum induces apoptosis in A549 cells and prevents angiogenesis in vitro and in vivo." in: Scientific reports, Vol. 6, pp. 26722, (2018) (PubMed).</p> <p>Qin, Ke, Zhou, Wang, Liang, Wang, Yang, Gao, Ye, Kumar, Wang: "Metastasis-Associated Protein 1 Deficiency Results in Compromised Pulmonary Alveolar Capillary Angiogenesis in Mice." in: Medical science monitor : international medical journal of experimental and clinical research, Vol. 23, pp. 3932-3941, (2018) (PubMed).</p> <p>Fang, Li, Qiao, Guo, Miao: "Neuroprotective effect of total flavonoids from Ilex pubescens against focal cerebral ischemia/reperfusion injury in rats." in: Molecular medicine reports, Vol. 16, Issue 5, pp. 7439-7449, (2018) (PubMed).</p> <p>Yang, Zhang, Li, Wen: "MALAT1 enhanced the proliferation of human osteoblasts treated with ultra-high molecular weight polyethylene by targeting VEGF via miR-22-5p." in: International journal of molecular medicine, Vol. 41, Issue 3, pp. 1536-1546, (2018) (PubMed).</p>
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There are more publications referencing this product on: [Product page](#)

Images



Western Blotting

Image 1. Western blot analysis of VEGF expression in rat kidney extract (Lane 1). VEGF at 27KD was detected using rabbit anti-VEGF Antigen Affinity purified polyclonal antibody (Catalog #) at 0.5 µg/mL. The blot was developed using chemiluminescence (ECL) method (Catalog # EK1002).