

Datasheet for ABIN3042324
anti-VEGFA antibody (AA 27-191)

3 Images

99 Publications

[Go to Product page](#)

Overview

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| Quantity: | 100 µg |
| Target: | VEGFA |
| Binding Specificity: | AA 27-191 |
| Reactivity: | Human, Rat |
| Host: | Rabbit |
| Clonality: | Polyclonal |
| Conjugate: | This VEGFA antibody is un-conjugated |
| Application: | Western Blotting (WB), Immunohistochemistry (Paraffin-embedded Sections) (IHC (p)) |

Product Details

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| Purpose: | Rabbit IgG polyclonal antibody for Vascular endothelial growth factor A(VEGFA) detection. Tested with WB, IHC-P in Human,Rat. |
| 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. |
| Isotype: | IgG |
| Cross-Reactivity (Details): | No cross reactivity with other proteins. |
| Characteristics: | Rabbit IgG polyclonal antibody for Vascular endothelial growth factor A(VEGFA) detection. Tested with WB, IHC-P in Human,Rat. Gene Name: vascular endothelial growth factor A Protein Name: Vascular endothelial growth factor A |
| Purification: | Immunogen affinity purified. |

Target Details

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| Target: | VEGFA |
| Alternative Name: | VEGFA (VEGFA Products) |
| Background: | <p>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.</p> <p>Synonyms: MGC70609 antibody MVCD1 antibody Vascular endothelial growth factor A antibody Vascular Endothelial Growth Factor antibody Vascular Permeability Factor antibody VEGF-A antibody VEGFA antibody VEGFA_HUMAN antibody VPF antibody</p> |
| Gene ID: | 7422 |
| UniProt: | P15692 |
| 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

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| Application Notes: | <p>WB: Concentration: 0.1-0.5 µg/mL, Tested Species: Rat, Predicted Species: Human, The detection limit for VEGF is approximately 0.25 ng/lane under reducing conditions.</p> <p>IHC-P: Concentration: 0.5-1 µg/mL, Tested Species: Human, Epitope Retrieval by Heat: Boiling the paraffin sections in 10 mM citrate buffer, pH 6.0, for 20 mins is required for the staining of formalin/paraffin sections.</p> <p>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.</p> |
| Comment: | Antibody can be supported by chemiluminescence kit ABIN921124 in WB, supported by ABIN921231 in IHC(P). |
| Restrictions: | For Research Use only |

Handling

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| 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. |
| Handling Advice: | Avoid repeated freezing and thawing. |
| 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. |

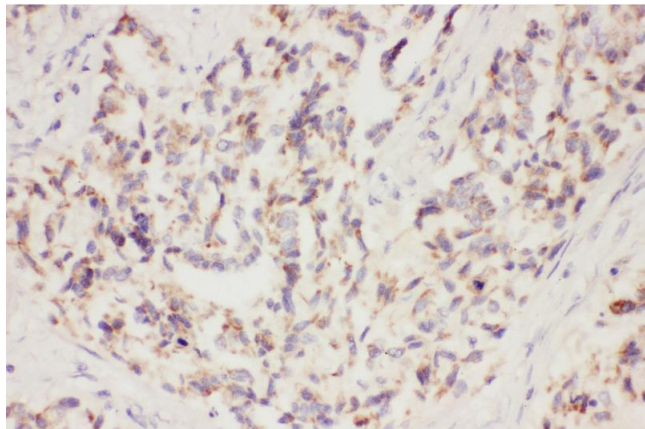
Publications

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|-------------------|---|
| 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</p> |
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journal of molecular medicine, Vol. 41, Issue 3, pp. 1536-1546, (2018) ([PubMed](#)).

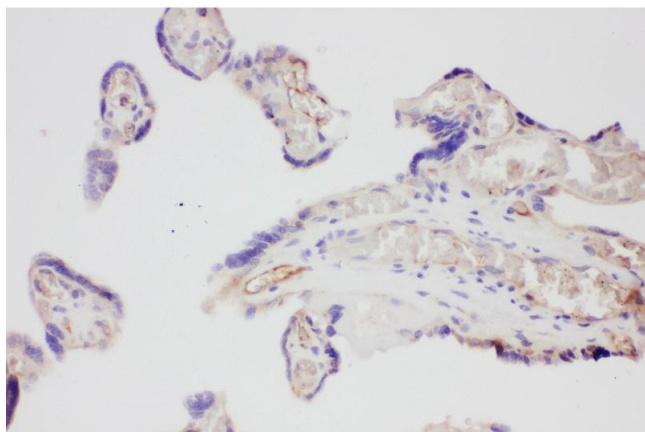
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Images



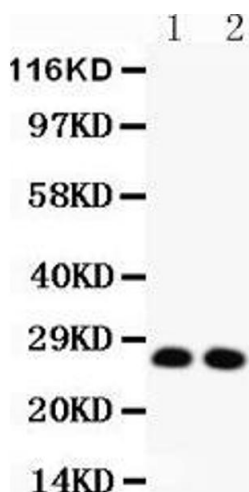
Immunohistochemistry

Image 1. Anti-VEGF Picoband antibody, IHC(P): Human Lung Cancer Tissue



Immunohistochemistry

Image 2. Anti-VEGF Picoband antibody, IHC(P): Human Placenta Tissue



Western Blotting

Image 3. Anti-VEGF Picoband antibody, All lanes: Anti-VEGF at 0.5ug/ml Lane 1: Rat Thymus Tissue Lysate at 40ug Lane 2: Rat Brain Tissue Lysate at 40ug Predicted bind size: 27KD Observed bind size: 27KD