

Datasheet for ABIN3044494  
**anti-VEGFA antibody (N-Term)**[2 Images](#)[105 Publications](#)[Go to Product page](#)

## Overview

Quantity:	100 µg
Target:	VEGFA
Binding Specificity:	AA 33-48, N-Term
Reactivity:	Human, Rat, Mouse
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This VEGFA antibody is un-conjugated
Application:	Western Blotting (WB), Immunohistochemistry (Paraffin-embedded Sections) (IHC (p))

## Product Details

Purpose:	Rabbit IgG polyclonal antibody for Vascular endothelial growth factor A(VEGFA) detection. Tested with WB, IHC-P in Human,Mouse,Rat.
Immunogen:	A synthetic peptide corresponding to a sequence at the N-terminus of human VEGF(33-48aa VDIFQEYPDEIEYIFK), identical to the related mouse and rat sequences.
Sequence:	VDIFQEYPDE IEYIFK
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,Mouse,Rat. Gene Name: vascular endothelial growth factor A Protein Name: Vascular endothelial growth factor A(VEGF-A)

## Product Details

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Purification: Immunogen affinity purified.

## Target Details

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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. Vascular endothelial growth factor is a mitogen primarily for vascular endothelial cells. 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. Vascular endothelial growth factor(VEGF) induces remodeling and enhances TH2-mediated sensitization and inflammation in the lung. VEGF regulates haematopoietic stem cell survival by an internal autocrine loop mechanism. Vascular endothelial growth factor(VEGF) stimulates neurogenesis in vitro and in vivo.

Synonyms: MGC70609 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

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: WB: Concentration: 0.1-0.5 µg/mL, Tested Species: Human, Predicted Species: Mouse, Rat  
IHC-P: Concentration: 0.5-1 µg/mL, Tested Species: Rat, Predicted Species: Human, Mouse,  
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.  
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, supported by ABIN921231 in IHC(P).

## Application Details

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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<sub>2</sub>HPO<sub>4</sub>, 0.05 mg Thimerosal, 0.05 mg Sodium azide.

Preservative: Thimerosal (Merthiolate), Sodium azide

Precaution of Use: This product contains Sodium azide and Thimerosal (Merthiolate): POISONOUS AND HAZARDOUS SUBSTANCES 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.

Expiry Date: 12 months

## Publications

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Product cited in: 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](#)).

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](#)).

Yan-Ping, Xiao-Qin, Xiao Ping, Ying Quan: "Effects of Chronic Exposure to Sodium Arsenite on Expressions of VEGF and VEGFR2 Proteins in the Epididymis of Rats." in: **BioMed research international**, Vol. 2017, pp. 2597256, (2018) ([PubMed](#)).

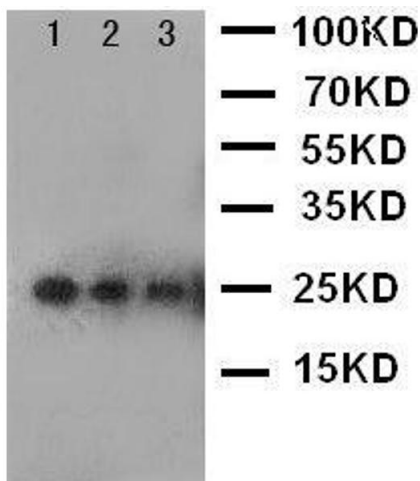
Qin, Ke, Zhou, Wang, Liang, Wang, Yang, Gao, Ye, Kumar, Wang: "Metastasis-Associated Protein

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](#)).

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](#)).

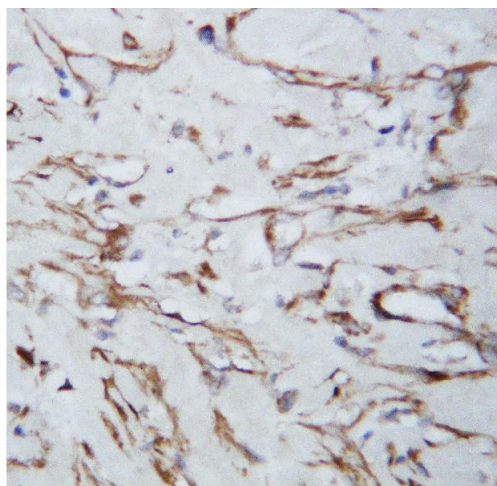
There are more publications referencing this product on: [Product page](#)

Images



**Western Blotting**

**Image 1.** Anti-VEGF antibody, Western blotting Lane 1: Recombinant Human VEGF Protein 10ng Lane 2: Recombinant Human VEGF Protein 5ng Lane 3: Recombinant Human VEGF Protein 2.5ng



**Immunohistochemistry**

**Image 2.** Anti-VEGF antibody, IHC(P) IHC(P): Human Lung Cancer Tissue