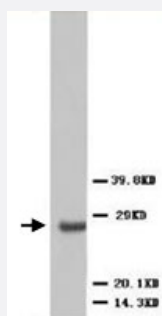


VEGFA polyclonal antibody

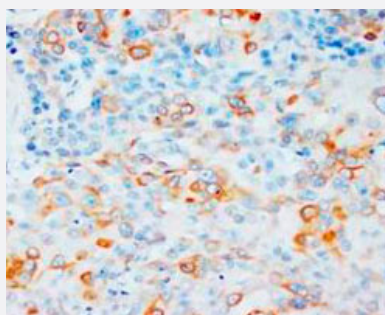
Catalog # PAB12284 Size 100 ug

Applications



Western Blot (Tissue lysate)

Western Blot analysis of VEGFA expression from rat cardiac muscle tissue lysate with VEGFA polyclonal antibody (Cat # PAB12284).



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections)

Immunohistochemical staining of VEGFA on formalin fixed, paraffin embedded human esophageal squamous cell carcinoma (ESCC) in cytoplasm DAB chromogenic reaction. Using VEGFA polyclonal antibody (Cat # PAB12284).

Specification

Product Description	Rabbit polyclonal antibody raised against synthetic peptide of VEGFA.
Immunogen	A synthetic peptide corresponding to amino acids at N-terminus of human VEGFA.
Host	Rabbit
Theoretical MW (kDa)	27
Reactivity	Human, Mouse, Rat
Specificity	Identical to the related rat sequence.
Form	Lyophilized

Purification	Affinity purification
Isotype	IgG
Recommend Usage	Western Blot (0.5-1 ug/mL) Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) (1-2 ug/mL) The optimal working dilution should be determined by the end user.
Storage Buffer	Lyophilized from 0.9 mg NaCl, 0.2 mg Na ₂ HPO ₄ (5 mg BSA, 0.05 mg sodium azide, 0.05 mg Thimerosal)
Storage Instruction	Store at -20°C on dry atmosphere. After reconstitution with 200 uL of deionized water and concentration will be 500 ug/mL, store at -20°C or lower. Aliquot to avoid repeated freezing and thawing.
Note	This product contains sodium azide and thimerosal: POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.

Applications

- Western Blot (Tissue lysate)

Western Blot analysis of VEGFA expression from rat cardiac muscle tissue lysate with VEGFA polyclonal antibody (Cat # PAB12284).

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Gene Info — VEGFA

Entrez GeneID	7422
GeneBank Accession#	BC065522
Protein Accession#	AAH65522
Gene Name	VEGFA
Gene Alias	MGC70609, VEGF, VEGF-A, VPF
Gene Description	vascular endothelial growth factor A
Omim ID	125853 192240
Gene Ontology	Hyperlink

Gene Summary

This gene is a member of the PDGF/VEGF growth factor family and encodes a protein that is often found as a disulfide linked homodimer. This protein is a glycosylated mitogen that specifically acts on endothelial cells and has various effects, including mediating increased vascular permeability, inducing angiogenesis, vasculogenesis and endothelial cell growth, promoting cell migration, and inhibiting apoptosis. Elevated levels of this protein is linked to POEMS syndrome, also known as Crow-Fukase syndrome. Mutations in this gene have been associated with proliferative and nonproliferative diabetic retinopathy. Alternatively spliced transcript variants, encoding either freely secreted or cell-associated isoforms, have been characterized. There is also evidence for the use of non-AUG (CUG) translation initiation sites upstream of, and in-frame with the first AUG, leading to additional isoforms. [provided by RefSeq]

Other Designations

vascular endothelial growth factor isoform VEGF165|vascular permeability factor

Publication Reference

- [Protective effect of Salvianolic acid A on ischaemia-reperfusion acute kidney injury in rats through protecting against peritubular capillary endothelium damages.](#)

Zhang Z, Qi D, Wang X, Gao Z, Li P, Liu W, Tian X, Liu Y, Yang M, Liu K, Fan H.

Phytotherapy Research 2017 Oct; 32(1):103.

Application: IHC-P, Rat, Rat kidney

- [Opposing roles of CXCR4 and CXCR7 in breast cancer metastasis.](#)

Hernandez L, Magalhaes MA, Coniglio SJ, Condeelis JS, Segall JE.

Breast Cancer Research 2011 Dec; 13(6):R128.

Application: IHC-P, Mouse, Mouse tumors

- [Vascular endothelial growth factor \(VEGF\) induces remodeling and enhances TH2-mediated sensitization and inflammation in the lung.](#)

Lee CG, Link H, Baluk P, Homer RJ, Chapoval S, Bhandari V, Kang MJ, Cohn L, Kim YK, McDonald DM, Elias JA.

Nature Medicine 2004 Oct; 10(10):1095.

Application: ELISA, IF, IHC, Mouse, Lung, T cells

- [Vascular endothelial growth factor \(VEGF\) stimulates neurogenesis in vitro and in vivo.](#)

Jin K, Zhu Y, Sun Y, Mao XO, Xie L, Greenberg DA.

PNAS 2002 Sep; 99(18):11946.

Application: Inject, Recombinant protein

- [VEGF regulates haematopoietic stem cell survival by an internal autocrine loop mechanism.](#)

Gerber HP, Malik AK, Solar GP, Sherman D, Liang XH, Meng G, Hong K, Marsters JC, Ferrara N.

Nature 2002 Jun; 417(6892):954.

Pathway

- [Bladder cancer](#)
- [Cytokine-cytokine receptor interaction](#)
- [Focal adhesion](#)
- [mTOR signaling pathway](#)
- [Pancreatic cancer](#)
- [Pathways in cancer](#)
- [Renal cell carcinoma](#)
- [VEGF signaling pathway](#)

Disease

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- [Acute Disease](#)
- [Adenocarcinoma](#)
- [Albuminuria](#)
- [Altitude Sickness](#)
- [Alzheimer disease](#)
- [Amyotrophic lateral sclerosis](#)
- [Angina Pectoris](#)
- [Anoxia](#)
- [Arthritis](#)

- [Ascites](#)
- [Asperger Syndrome](#)
- [Asthma](#)
- [Atherosclerosis](#)
- [Atrophy](#)
- [Autistic Disorder](#)
- [Basal Ganglia Diseases](#)
- [Behcet Syndrome](#)
- [Biliary Tract Neoplasms](#)
- [Birth Weight](#)
- [Blindness](#)
- [Brain Ischemia](#)
- [Breast cancer](#)
- [Breast Neoplasms](#)
- [Bronchopulmonary Dysplasia](#)
- [Calcinosis](#)
- [Carcinoma](#)
- [Cardiovascular Abnormalities](#)
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- [Cell Transformation](#)
- [Cerebral Amyloid Angiopathy](#)
- [Cerebrovascular Accident](#)
- [Chorioamnionitis](#)
- [Choroidal Neovascularization](#)
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- [Cognition Disorders](#)
- [Colon cancer](#)
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- [Coronary Restenosis](#)
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- [Diabetic Nephropathies](#)
- [Diabetic Neuropathies](#)
- [Diabetic Retinopathy](#)
- [DiGeorge Syndrome](#)
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- [Duodenal Ulcer](#)
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- [Esophageal Neoplasms](#)
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- [Gastrointestinal Hemorrhage](#)
- [Genetic Predisposition to Disease](#)
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- [Head and Neck Neoplasms](#)
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- [Heart Septal Defects](#)
- [Heart Valve Diseases](#)
- [Helicobacter Infections](#)

- [HELLP Syndrome](#)
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- [Migraine Disorders](#)
- [Mouth Neoplasms](#)
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- [Multiple Myeloma](#)
- [Multiple Sclerosis](#)
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- [Myocardial Ischemia](#)
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- [Neoplasm Invasiveness](#)
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- [Prediabetic State](#)
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- [Pregnancy Complications](#)
- [Premature Birth](#)
- [Prostate cancer](#)
- [Prostatic Neoplasms](#)
- [Proteinuria](#)
- [Pseudoxanthoma Elasticum](#)
- [Psoriasis](#)

- [Pterygium](#)
- [Pulmonary Disease](#)
- [Pulmonary Edema](#)
- [Pulmonary Fibrosis](#)
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- [Rectal Neoplasms](#)
- [Recurrence](#)
- [Renal Insufficiency](#)
- [Respiratory Distress Syndrome](#)
- [Retinopathy of Prematurity](#)
- [Sarcoidosis](#)
- [Sarcoma](#)
- [Scleroderma](#)
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- [Skin Neoplasms](#)
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- [Spondylitis](#)
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- [Stomach Ulcer](#)
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- [Supranuclear Palsy](#)
- [Temporal Arteritis](#)
- [Tetralogy of Fallot](#)
- [Thrombosis](#)
- [Thyroid Neoplasms](#)

- [Urinary Bladder Neoplasms](#)
- [Urinary Calculi](#)
- [Urinary Tract Infections](#)
- [Urination Disorders](#)
- [Uterine Cervical Neoplasms](#)
- [Uterine Neoplasms](#)
- [Uveitis](#)
- [Ventricular Outflow Obstruction](#)
- [Vesico-Ureteral Reflux](#)
- [Vision](#)
- [Waldenstrom Macroglobulinemia](#)
- [Werner syndrome](#)