

Datasheet for ABIN6150083
anti-VEGFA antibody (AA 27-126)



[Go to Product page](#)

5 Images

3 Publications

Overview

Quantity:	100 µL
Target:	VEGFA
Binding Specificity:	AA 27-126
Reactivity:	Human
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This VEGFA antibody is un-conjugated
Application:	Western Blotting (WB), Immunohistochemistry (IHC), Immunofluorescence (IF)

Product Details

Immunogen:	Recombinant fusion protein containing a sequence corresponding to amino acids 27-126AA of human VEGF (NP_001165099.1).
Sequence:	APMAEGGGQN HHEVVKFMDV YQRSYCHPIE TLVDIFQEYP DEIEYIFKPS CVPLMRCGGC CNDEGLECVP TEESNITMQI MRIKPHQGQH IGEMSFLQHN
Isotype:	IgG
Cross-Reactivity:	Human, Mouse, Rat
Characteristics:	Polyclonal Antibodies

Target Details

Target:	VEGFA
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Target Details

Alternative Name:	VEGFA (VEGFA Products)
Background:	This gene is a member of the PDGF/VEGF growth factor family. It encodes a heparin-binding protein, which exists as a disulfide-linked homodimer. This growth factor induces proliferation and migration of vascular endothelial cells, and is essential for both physiological and pathological angiogenesis. Disruption of this gene in mice resulted in abnormal embryonic blood vessel formation. This gene is upregulated in many known tumors and its expression is correlated with tumor stage and progression. Elevated levels of this protein are found in patients with POEMS syndrome, also known as Crow-Fukase syndrome. Allelic variants of this gene have been associated with microvascular complications of diabetes 1 (MVCD1) and atherosclerosis. Alternatively spliced transcript variants encoding different isoforms have been described. There is also evidence for alternative translation initiation from upstream non-AUG (CUG) codons resulting in additional isoforms. A recent study showed that a C-terminally extended isoform is produced by use of an alternative in-frame translation termination codon via a stop codon readthrough mechanism, and that this isoform is antiangiogenic. Expression of some isoforms derived from the AUG start codon is regulated by a small upstream open reading frame, which is located within an internal ribosome entry site.,VEGFA,MVCD1,VEGF,VPF,L VEGFA,VEGF A,Cancer,Invasion and Metastasis,Signal Transduction,Cell Biology & Developmental Biology,Apoptosis,Growth factor,VEGF,Endocrine & Metabolism,Immunology & Inflammation,Cytokines,Cardiovascular,Angiogenesis,Angiogenic growth factors,Hypoxia,VEGFA
Molecular Weight:	15-27 kDa/34-45 kDa
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

Application Notes:	WB,1:500 - 1:2000,IHC,1:50 - 1:200,IF,1:50 - 1:200
Restrictions:	For Research Use only

Handling

Format:	Liquid
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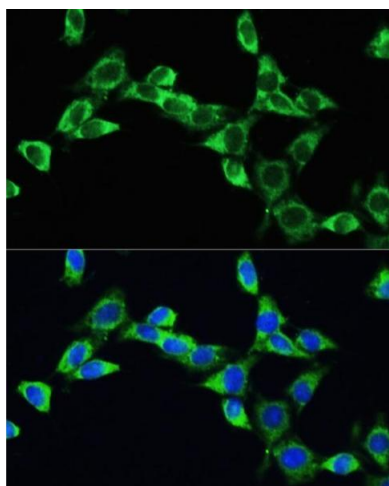
Handling

Buffer:	PBS with 0.02 % sodium azide, 50 % glycerol, pH 7.3.
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:	-20 °C
Storage Comment:	Store at -20°C. Avoid freeze / thaw cycles.

Publications

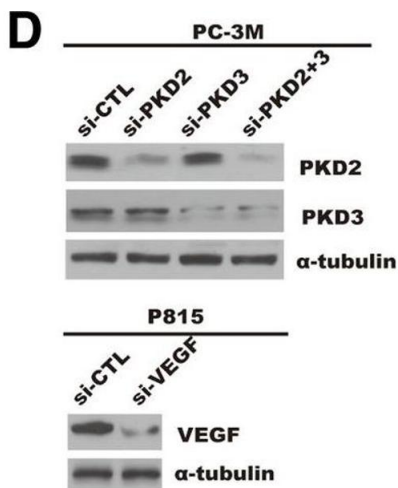
Product cited in:	Zhang, Mehmood, Jiang, Yao, Iqbal, Waqas, Rehman, Li, Shen, Li: "Effect of tetramethyl thiuram disulfide (thiram) in relation to tibial dyschondroplasia in chickens." in: Environmental science and pollution research international, Vol. 25, Issue 28, pp. 28264-28274, (2019) (PubMed). Xiong, Zhao, Lin, Yao, Huang, Yu, Dong, Xiao, Zhao, Cai et al.: "Phosphorylation of low density lipoprotein receptor-related protein 6 is involved in receptor for advanced glycation end product-mediated β-catenin stabilization in a toluene diisocyanate-induced ..." in: International immunopharmacology, Vol. 59, pp. 187-196, (2018) (PubMed). Dong, Zheng, Wang, Tang, Yan, Zhou, Huang: "A novel HDAC6 inhibitor exerts an anti-cancer effect by triggering cell cycle arrest and apoptosis in gastric cancer." in: European journal of pharmacology, Vol. 828, pp. 67-79, (2018) (PubMed).
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Images



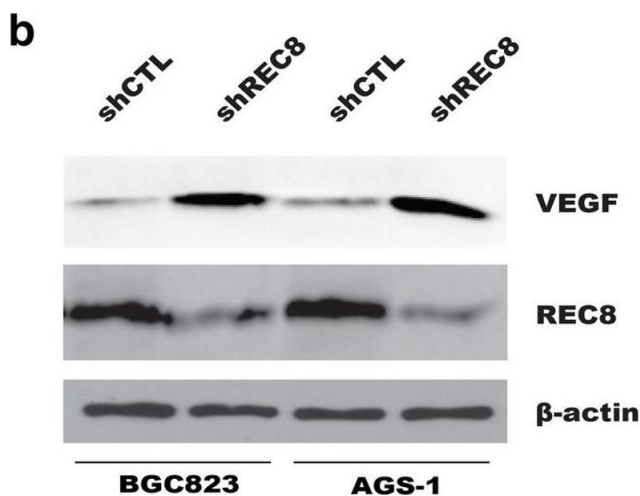
Immunofluorescence

Image 1. Immunofluorescence analysis of NIH/3T3 cells using VEGFA Rabbit pAb (ABIN6128907, ABIN6150083, ABIN6150084 and ABIN6215912) at dilution of 100 (40x lens). Blue: DAPI for nuclear staining.



Western Blotting

Image 2. Prostate cancer cells-derived PKD2/3 promote chemotactic migration of mast cells and endothelial cells tube formation. a Conditional medium (CM) from PC-3M or DU145 cells transiently transfected with si-CTL, si-PKD2, si-PKD3 was used to be chemoattractant for P815 mast cell migration by transwell assays. *** $p < 0.001$, ** $p < 0.01$ versus si-CTL by one-way ANOVA. b Silencing of PKD2 and PKD3 verification by Western blotting (left panel). c VEGF mRNA level was assessed by qPCR in P815 mast cells induced by conditional medium from DU145 cells transfected with siRNA of PKD2 or /and PKD3 (right panel). * $p < 0.05$, ** $p < 0.01$ versus si-CTL by one-way ANOVA. d Knockdown efficiency were verified by Western blot in PC-3M(up) or P815 mast cells(bottom). Cells were transiently transfected with siRNA of indicated genes using lipofectmine3000. e HUVEC cells were treated with conditional medium from co-cultured of P815 mast cells transfected with si-CTL or si-VEGF and PC-3M cells transfected with si-CTL, si-PKD2, si-PKD3 or si-PKD2+3. Tube formation of HUVEC cells were visualized by phase contrast inverted microscope (100x). f Tube formation was assessed the number of nodes per image was quantified and analyzed by two way ANOVA, ** $p < 0.01$ - figure provided by CiteAb. Source: PMID30841931



Western Blotting

Image 3. Depletion of REC8 enhanced HUVECs migration and tube formation through upregulation of VEGF in gastric cancer cells. a-c The mRNA and protein level of VEGF were analyzed by real-time qPCR, western blotting and ELISA in BGC823 and AGS-1 cells. *** $p < 0.001$, ** $p < 0.01$ versus shCTL. d-g Transwell assay and tube formation assay were employed to detect HUVEC migration and tube formation with or without neutralizing VEGF antibody in CM from indicated group in BGC823 cells. Quantification was

performed to analyze the statistical significance. *** $p < 0.001$
- figure provided by CiteAb. Source: PMID32958054

Please check the [product details page](#) for more images. Overall 5 images are available for ABIN6150083.