Datasheet for ABIN6150085

anti-VEGFA antibody (AA 111-161)

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Overview

Quantity:	100 µL
Target:	VEGFA
Binding Specificity:	AA 111-161
Reactivity:	Human
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This VEGFA antibody is un-conjugated
Application:	Western Blotting (WB), Immunohistochemistry (IHC), Immunoprecipitation (IP), Immunofluorescence (IF)

Product Details

Immunogen:	A synthetic peptide corresponding to a sequence within amino acids 111-161 of human VEGF (NP_001165094).
Sequence:	PHQGQHIGEM SFLQHNKCEC RPKKDRARQE KKSVRGKGKG QKRKRKKSRY K
Isotype:	IgG
Cross-Reactivity:	Human, Mouse, Rat
Characteristics:	Polyclonal Antibodies

Target Details

Target:	VEGFA

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,IP,1:50 - 1:100
Comment:	HIGH QUALITY
Restrictions:	For Research Use only

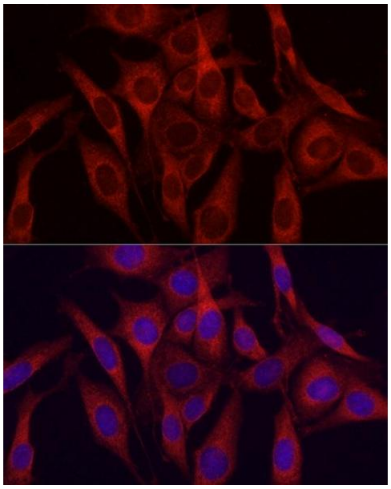
Handling

Format:	Liquid
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

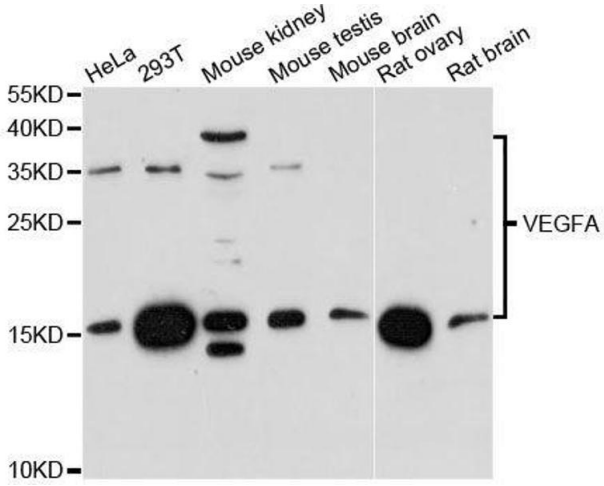
Product cited in:	Qiu, Zhou, Kang, Ding, Yu, Tan, Deng: "Effect of BZG-4000, a novel multi-targeted kinase inhibitor with potent anticancer activity, on a hepatocellular carcinoma xenograft model." in: **Scientific reports**, Vol. 4, pp. 4324, (2015) (PubMed).

Images



Immunofluorescence

Image 1. Immunofluorescence analysis of NIH/3T3 cells using VEGFA Rabbit pAb (ABIN6133961, ABIN6150085, ABIN6150087 and ABIN6213765) at dilution of 1:150 (40x lens). Blue: DAPI for nuclear staining.



Western Blotting

Image 2. Western blot analysis of extracts of various cell lines, using VEGFA antibody.