

VEGFA Monoclonal antibody

Catalog Number: 66828-1-Ig

Featured Product

93 Publications

Basic Information

Catalog Number:

66828-1-Ig

Size:

2000 µg/ml

Source:

Mouse

Isotype:

IgG2b

Immunogen Catalog Number:

AG13500

GenBank Accession Number:

BC065522

GeneID (NCBI):

7422

UNIPROT ID:

P15692

Full Name:

vascular endothelial growth factor A

Calculated MW:

412 aa, 46 kDa

Observed MW:

43 kDa

Purification Method:

Protein A purification

CloneNo.:

2E2H9

Recommended Dilutions:

WB 1:1000-1:4000

IHC 1:400-1:1600

IF 1:200-1:800

Applications

Tested Applications:

FC, IF/ICC, IF-P, IHC, WB, ELISA

Cited Applications:

WB, IF, IHC, ELISA

Species Specificity:

Human

Cited Species:

human, goat, rat, zebrafish, pig

Note-IHC: suggested antigen retrieval with TE buffer pH 9.0; (*) Alternatively, antigen retrieval may be performed with citrate buffer pH 6.0

Positive Controls:

WB : MCF-7 cells, HUVEC cells, NCI-H1299 cells, A431 cells, SH-SY5Y cells, HuH-7 cells, T-47D cells, MDA-MB-231 cells

IHC : human lung cancer tissue, human liver cancer tissue, human colon cancer tissue

IF : MCF-7 cells, human endometrial cancer tissue, human lung cancer tissue

Background Information

VEGFA, also named as VEGF or VPF, belongs to the PDGF/VEGF growth factor family. It is a growth factor active in angiogenesis, vasculogenesis and endothelial cell growth. VEGFA induces endothelial cell proliferation, promotes cell migration, inhibits apoptosis and induces permeabilization of blood vessels. It binds to the FLT1/VEGFR1 and KDR/VEGFR2 receptors, heparan sulfate and heparin. Defects in VEGFA are associated with microvascular complications of diabetes type 1 (MVCD1). VEGFA has 17 isoforms with MW from 16 to 45 kDa. Some isoforms have homodimer forms (e.g.; VEGFA189 38kDa or VEGFA110 34 kDa). VEGF-A exists in at least seven homodimeric isoforms. The monomers consist of 121, 145, 148, 165, 183, 189, or 206 amino acids (PMID:15602010). This antibody can recognize all VEGFA isoforms.

Notable Publications

Author	Pubmed ID	Journal	Application
Qingrong Zhang	34655915	Colloids Surf B Biointerfaces	WB,IHC
Yongguang Yang	36212390	Front Oncol	WB,IHC
Jingyun Guo	36213383	Open Life Sci	WB

Storage

Storage:

Store at -20°C. Stable for one year after shipment.

Storage Buffer:

PBS with 0.02% sodium azide and 50% glycerol pH 7.3.

Aliquoting is unnecessary for -20°C storage

For technical support and original validation data for this product please contact:

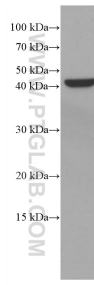
T: 4006900926

E: Proteintech-CN@ptglab.com

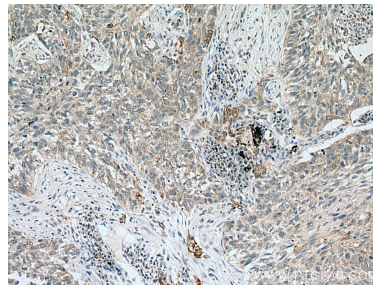
W: ptgcn.com

This product is exclusively available under Proteintech Group brand and is not available to purchase from any other manufacturer.

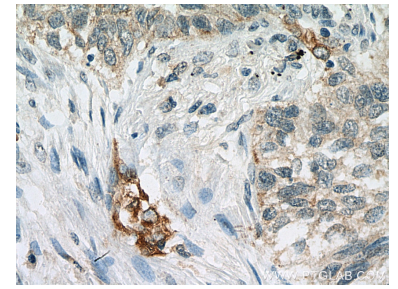
Selected Validation Data



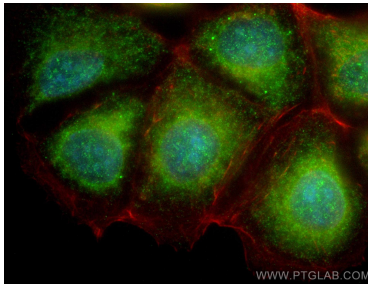
MCF-7 cells were subjected to SDS PAGE followed by western blot with 66828-1-Ig (VEGFA antibody) at dilution of 1:3000 incubated at room temperature for 1.5 hours.



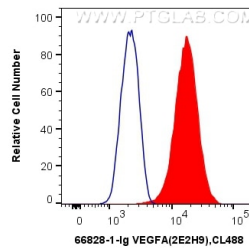
Immunohistochemical analysis of paraffin-embedded human lung cancer tissue slide using 66828-1-Ig (VEGFA antibody) at dilution of 1:800 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunohistochemical analysis of paraffin-embedded human lung cancer tissue slide using 66828-1-Ig (VEGFA antibody) at dilution of 1:800 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunofluorescent analysis of (-20°C Ethanol) fixed MCF-7 cells using VEGFA antibody (66828-1-Ig, Clone: 2E2H9) at dilution of 1:400 and CoraLite®488-Conjugated AffiniPure Goat Anti-Mouse IgG(H+L).



1X10⁶ MCF-7 cells were intracellularly stained with 0.5 ug Anti-Human VEGFA (66828-1-Ig, Clone:2E2H9) and CoraLite®488-Conjugated AffiniPure Goat Anti-Mouse IgG(H+L) at dilution 1:1000 (red), or 0.5 ug Mouse IgG2b Isotype Control (66360-3-Ig, Clone: K11B8C4B5) (blue). Cells were fixed with 4% PFA and permeabilized with Flow Cytometry Perm Buffer (PF00011-C).