

# VEGF Polyclonal ANTIBODY

Catalog Number: 19003-1-AP

Featured Product

190 Publications

## Basic Information

Catalog Number:  
19003-1-AP

Size:  
55 µg/150 µl

Source:  
Rabbit

Isotype:  
IgG

Purification Method:  
Antigen affinity purification

Immunogen Catalog Number:  
AG13500

GenBank Accession Number:  
BC065522

GeneID (NCBI):  
7422

Full Name:  
vascular endothelial growth factor A

Calculated MW:  
412aa, 46 kDa

Observed MW:  
25-30 kDa, 40-46 kDa

Recommended Dilutions:  
WB 1:500-1:2000

IHC 1:50-1:500

## Applications

Tested Applications:  
IHC, WB, ELISA

Cited Applications:  
ColP, IF, IHC, WB

Species Specificity:  
human

Cited Species:  
human, pig, sheep, swine

**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; HeLa cells, SGC-7901 cells, U-937 cells

IHC : human lung cancer tissue; human liver 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 (M/CD1). VEGFA has 17 isoforms with MW from 16 to 45 kDa. Some isoforms have homodimer forms (e.g.: VEGFA189 38kDa or VEGFA110 34kDa). VEGF-A exists in at least seven homodimeric isoforms. The monomers consist of 121, 145, 148, 165, 183, 189, or 206 amino acids (PMD:15602010). This antibody can recognize all VEGFA isoforms.

## Notable Publications

Author	Pubmed ID	Journal	Application
Daquan Liu	26416150	Bone	WB
Chao Qi	30259043	Biomater Sci	WB
Jae Seung Jeong	29046696	Lab Anim Res	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

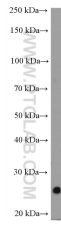
For technical support and original validation data for this product please contact:

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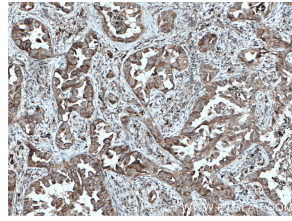
E: proteintech@ptglab.com  
W: ptglab.com

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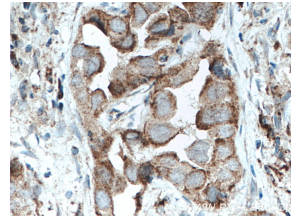
## Selected Validation Data



MCF-7 cells were subjected to SDS PAGE followed by western blot with 19003-1-AP (VEGF antibody) at dilution of 1:1000 incubated at room temperature for 1.5 hours



Immunohistochemical analysis of paraffin-embedded human lung cancer tissue slide using 19003-1-AP (VEGF antibody) at dilution of 1:200 (under 10x lens) heat mediated antigen retrieved with Tris-EDTA buffer(pH9).



Immunohistochemical analysis of paraffin-embedded human lung cancer tissue slide using 19003-1-AP (VEGF antibody) at dilution of 1:200 (under 40x lens) heat mediated antigen retrieved with Tris-EDTA buffer(pH9).