

For Research Use Only

# VEGFR-1/FLT-1 Polyclonal antibody, PBS Only

Catalog Number: 13687-1-PBS



## Basic Information

### Catalog Number:

13687-1-PBS

### Size:

100ug, Concentration: 1 mg/ml by  
Nanodrop;

### Source:

Rabbit

### Isotype:

IgG

### Immunogen Catalog Number:

AG4558

### GenBank Accession Number:

BC039007

### GeneID (NCBI):

2321

### UNIPROT ID:

P17948

### Full Name:

fms-related tyrosine kinase 1  
(vascular endothelial growth  
factor/vascular permeability factor  
receptor)

### Calculated MW:

1338 aa, 151 kDa

### Observed MW:

55-60 kDa

### Purification Method:

Antigen affinity purification

## Applications

### Tested Applications:

WB, IHC, IF/ICC, IP, Indirect ELISA

### Species Specificity:

human, mouse, rat

## Background Information

Vascular endothelial growth factor receptor-1 (VEGFR-1, FLT-1) is a receptor tyrosine kinase belonging to the VEGFR family. VEGF is a key regulator of physiological angiogenesis and has also been implicated in pathological angiogenesis associated with tumors, intraocular neovascular disorders, and other conditions. The biological effects of VEGF are mediated by VEGFR-1 and VEGFR-2. Both the two receptors have seven immunoglobulin-like repeats in the extracellular domain, a single transmembrane region and a tyrosine kinase domain. VEGFR-1 binds VEGFA, PlGF, and VEGFB, and plays an essential role in the development of embryonic vasculature, the regulation of angiogenesis, cell survival, cell migration, macrophage function, chemotaxis, and cancer cell invasion. Two isoforms of VEGFR-1 exist, a full-length transmembrane form and a short soluble form (sVEGFR-1) consisting of only the extracellular ligand-binding domain. (PMID: 12778165; 17109193; 8806634)

## Storage

### Storage:

Store at -80°C.

### Storage Buffer:

PBS Only

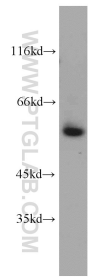
For technical support and original validation data for this product please contact:

T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free  
in USA), or 1(312) 455-8498 (outside USA)

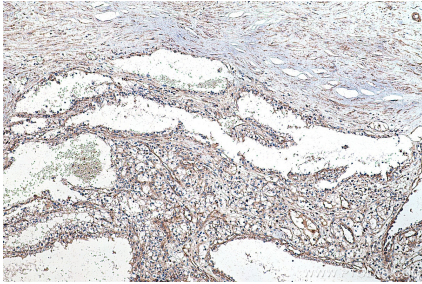
E: [proteintech@ptglab.com](mailto:proteintech@ptglab.com)  
W: [ptglab.com](http://ptglab.com)

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

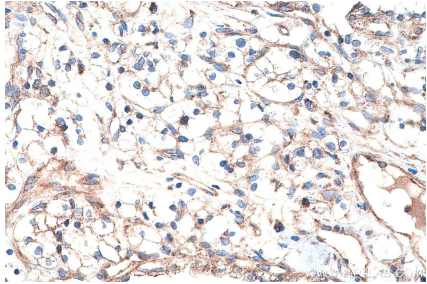
Selected Validation Data



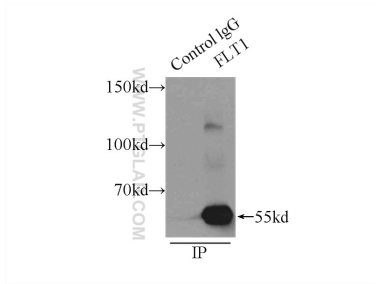
HEK-293 cells were subjected to SDS PAGE followed by western blot with 13687-1-AP (VEGFR-1/FLT-1 antibody) at dilution of 1:800 incubated at room temperature for 1.5 hours. This data was developed using the same antibody clone with 13687-1-PBS in a different storage buffer formulation.



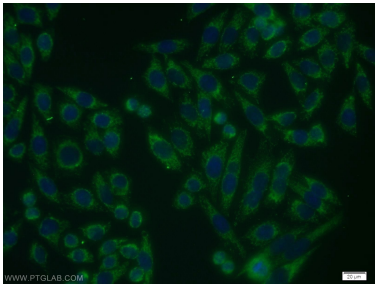
Immunohistochemical analysis of paraffin-embedded human renal cell carcinoma tissue slide using 13687-1-AP (VEGFR-1/FLT-1 antibody) at dilution of 1:2000 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0). This data was developed using the same antibody clone with 13687-1-PBS in a different storage buffer formulation.



Immunohistochemical analysis of paraffin-embedded human renal cell carcinoma tissue slide using 13687-1-AP (VEGFR-1/FLT-1 antibody) at dilution of 1:2000 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0). This data was developed using the same antibody clone with 13687-1-PBS in a different storage buffer formulation.



IP result of anti-VEGFR-1/FLT-1 (IP:13687-1-AP, 5ug; Detection:13687-1-AP 1:500) with A549 cells lysate 3300ug. This data was developed using the same antibody clone with 13687-1-PBS in a different storage buffer formulation.



Immunofluorescent analysis of HeLa cells using 13687-1-AP (VEGFR-1/FLT-1 antibody) at dilution of 1:25 and Alexa Fluor 488-conjugated AffiniPure Goat Anti-Rabbit IgG(H+L). This data was developed using the same antibody clone with 13687-1-PBS in a different storage buffer formulation.