

For Research Use Only

VEGFR-1/FLT-1 Polyclonal antibody

Catalog Number: 13687-1-AP **49 Publications**



Basic Information

Catalog Number: 13687-1-AP	GenBank Accession Number: BC039007	Purification Method: Antigen affinity purification
Size: 150ul , Concentration: 1000 ug/ml by Nanodrop and 260 ug/ml by Bradford method using BSA as the standard;	GeneID (NCBI): 2321	Recommended Dilutions: WB 1:500-1:1000 IP 0.5-4.0 ug for 1.0-3.0 mg of total protein lysate IHC 1:1000-1:4000 IF/ICC 1:10-1:100
Source: Rabbit	UNIPROT ID: P17948	
Isotype: IgG	Full Name: fms-related tyrosine kinase 1 (vascular endothelial growth factor/vascular permeability factor receptor)	
Immunogen Catalog Number: AG4558	Calculated MW: 1338 aa, 151 kDa	
	Observed MW: 55-60 kDa	

Applications

Tested Applications: WB, IHC, IF/ICC, IP, ELISA	Positive Controls: WB : HEK-293 cells, human placenta tissue, mouse lung tissue IP : A549 cells, IHC : human renal cell carcinoma tissue, IF/ICC : HeLa cells,
Cited Applications: WB, IHC, IF, IP	
Species Specificity: human, mouse	
Cited Species: human, mouse, rat, bovine, deer	

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

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)

Notable Publications

Author	Pubmed ID	Journal	Application
Qiang Ma	31562866	Eur J Pharmacol	WB,IHC
Yun Shi	31513785	Biochem Pharmacol	WB
Jie Zhang	36266491	Mol Cell Biochem	WB

Storage

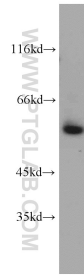
Storage:
Store at -20°C. Stable for one year after shipment.
Storage Buffer:
PBS with 0.02% sodium azide and 50% glycerol, pH7.3
Aliquoting is unnecessary for -20°C storage

*** 20ul sizes contain 0.1% BSA

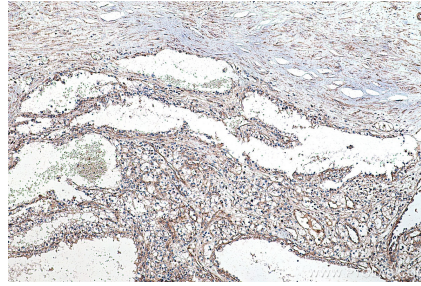
For technical support and original validation data for this product please contact:
T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or 1(312) 455-8498 (outside USA)
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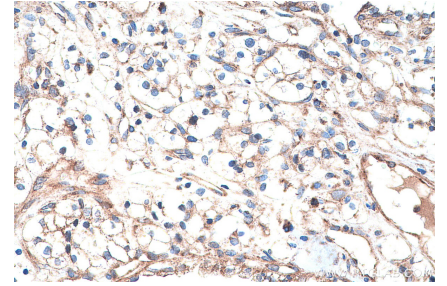
Selected Validation Data



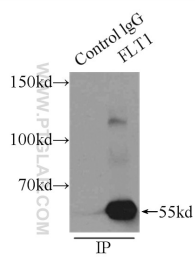
HEK-293 cells were subjected to SDS PAGE followed by western blot with 13687-1-AP (VEGFR-1/FLT-1 antibody) at dilution of 1:800 incubated at room temperature for 1.5 hours.



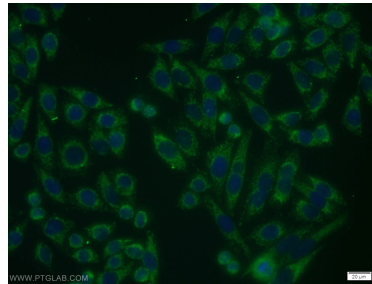
Immunohistochemical analysis of paraffin-embedded human renal cell carcinoma tissue slide using 13687-1-AP (VEGFR-1/FLT-1 antibody) at dilution of 1:2000 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



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).



IP result of anti-VEGFR-1/FLT-1 (IP:13687-1-AP, 5ug; Detection:13687-1-AP 1:500) with A549 cells lysate 3300ug.



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).