

VEGFR-1/FLT-1 Polyclonal Antibody

Catalog number: 13687-1-AP

Size: 39 µg/150 µl

Source: Rabbit

Isotype: IgG

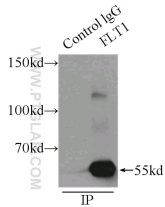
Synonyms:

FLT1; FLT, FLT 1, FLT1, FLT-1, Fms like tyrosine kinase 1, FRT, sflt1,

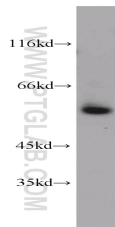
Tyrosine protein kinase FRT,

VEGF receptor 1, VEGFR 1,

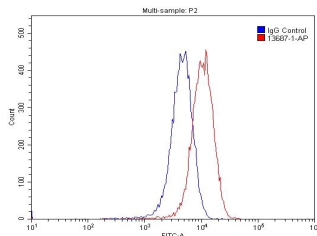
VEGFR1, VEGFR-1



IP Result of anti-VEGFR1, FLT1 (IP:13687-1-AP, 5µg; Detection:13687-1-AP 1:500) with A549 cells lysate 3300µg.



HEK-293 cells were subjected to SDS PAGE followed by western blot with 13687-1-AP (VEGFR1, FLT1 antibody) at dilution of 1:800



1X10⁶ HUVEC cells were stained with 0.2µg VEGFR1, FLT1 antibody (13687-1-AP, red) and control antibody (blue). Fixed with 4% PFA blocked with 3% BSA (30 min). Alexa Fluor 488-conjugated AffiniPure Goat Anti-Rabbit IgG(H+L) with dilution 1:1500.

Background

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)

Applications

Tested applications:	ELISA, WB, IP, IF, FC
Species specificity:	Human, Mouse, Rat; other species not tested.
Calculated VEGFR-1/FLT-1 MW:	1338aa, 151 kDa
Observed VEGFR-1/FLT-1 MW:	55-60 kDa
Positive WB detected in	HEK-293 cells, human placenta tissue, mouse lung tissue
Positive IP detected in	A549 cells
Positive IF detected in	HeLa cells
Positive FC detected in	HUVEC cells
Recommended dilution:	WB: 1:200-1:2000 IP: 1:200-1:2000 IF: 1:10-1:100 FC: N/A

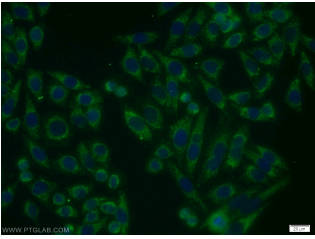
Application key: WB = Western blotting, IHC = Immunohistochemistry, IF = Immunofluorescence, IP = Immunoprecipitation

Immunogen information

Immunogen:	Ag4558
GenBank accession number:	BC039007
Gene ID (NCBI):	2321
Full name:	Fms-related tyrosine kinase 1 (vascular endothelial growth factor/vascular permeability factor receptor)

Product information

Purification method:	Antigen affinity purification
Storage:	PBS with 0.02% sodium azide and 50% glycerol pH 7.3. Store at -20°C.



**Immunofluorescent analysis
of HeLa cells using 13687-1-
AP(VEGFR1, FLT1 Antibody)
at dilution of 1:25 and Alexa
Fluor 488-conjugated
AffiniPure Goat Anti-Rabbit
IgG(H+L)**