

Summary

Production Name	Flt-1 Rabbit Polyclonal Antibody
Description	Rabbit Polyclonal Antibody
Host	Rabbit
Application	IHC, WB, ELISA
Reactivity	Human, Mouse, Rat

Performance

Conjugation	Unconjugated
Modification	Unmodified
Isotype	IgG
Clonality	Polyclonal
Form	Liquid
Storage	Store at 4°C short term. Aliquot and store at -20°C long term. Avoid freeze/thaw cycles.
Buffer	Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% New type preservative N.
Purification	Affinity purification

Immunogen

Gene Name	FLT1
Alternative Names	FLT1; FLT; FRT; VEGFR1; Vascular endothelial growth factor receptor 1; VEGFR-1; Fms-like tyrosine kinase 1; FLT-1; Tyrosine-protein kinase FRT; Tyrosine-protein kinase receptor FLT; FLT; Vascular permeability factor receptor
Gene ID	2321.0
SwissProt ID	P17948. The antiserum was produced against synthesized peptide derived from human VEGFR1. AA range: 1016-1065

Application

Dilution Ratio	WB 1:500 - 1:2000. IHC 1:100 - 1:300. ELISA: 1:5000..
Molecular Weight	150kD

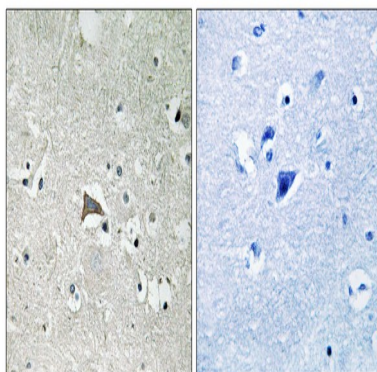
Background

This gene encodes a member of the vascular endothelial growth factor receptor (VEGFR) family. VEGFR family members are receptor tyrosine kinases (RTKs) which contain an extracellular ligand-binding region with seven immunoglobulin (Ig)-like domains, a transmembrane segment, and a tyrosine kinase (TK) domain within the cytoplasmic domain. This protein binds to VEGFR-A, VEGFR-B and placental growth factor and plays an important role in angiogenesis and vasculogenesis. Expression of this receptor is found in vascular endothelial cells, placental trophoblast cells and peripheral blood monocytes. Multiple transcript variants encoding different isoforms have been found for this gene. Isoforms include a full-length transmembrane receptor isoform and shortened, soluble isoforms. The soluble isoforms are associated with the onset of pre-eclampsia.[provided by RefSeq, May 2009],alternative products:Additional isoforms seem to exist,catalytic activity:ATP + a [protein]-L-tyrosine = ADP + a [protein]-L-tyrosine phosphate.,function:Receptor for VEGF, VEGFB and PGF. Has a tyrosine-protein kinase activity. The VEGF-kinase ligand/receptor signaling system plays a key role in vascular development and regulation of vascular permeability. Isoform sFlt1 may have an inhibitory role in angiogenesis.,similarity:Belongs to the protein kinase superfamily. Tyr protein kinase family.,similarity:Belongs to the protein kinase superfamily. Tyr protein kinase family. CSF-1/PDGF receptor subfamily.,similarity:Contains 1 protein kinase domain.,similarity:Contains 7 Ig-like C2-type (immunoglobulin-like) domains.,subunit:Interacts in vitro with various phosphotyrosine-binding proteins, including PLC-gammas, PTPN11, GRB2, CRK and NCK1.,tissue specificity:Mostly in normal lung, but also in placenta, liver, kidney, heart and brain tissues. Specifically expressed in most of the vascular endothelial cells, and also expressed in peripheral blood monocytes. It is not expressed in tumor cell lines. Isoform sFlt1 is strongly expressed in placenta.,

Research Area

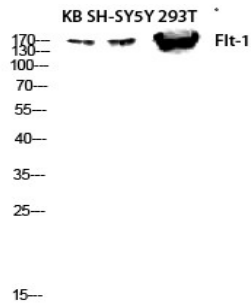
Cytokine-cytokine receptor interaction;Endocytosis;Focal adhesion;

Image Data

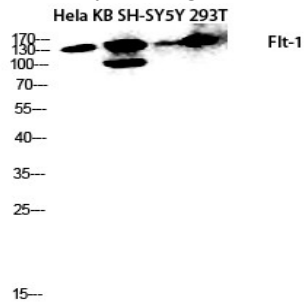


Immunohistochemistry analysis of paraffin-embedded human brain tissue, using VEGFR1 Antibody. The picture on the right is blocked with the synthesized peptide.

Product Name: Flt-1 Rabbit Polyclonal Antibody
Catalog #: APRab11035



Western blot analysis of KB SH-SY5Y 293T lysis using Flt-1 antibody. Antibody was diluted at 1:1000



Western blot analysis of HeLa KB SH-SY5Y 293T lysis using Flt-1 antibody. Antibody was diluted at 1:1000

Note

For research use only.