FLT1 Antibody – Rabbit Polyclonal

PRODUCT OVERVIEW

Product Name	FLT1, Polyclonal Antibody
Full Product Name	Anti-FLT1 Antibody, Rabbit Polyclonal
Product Gene Name	anti-FLT1 antibody
Product Synonym Names	VEGFR1/FLT-1 Antibody, Rabbit PAb; fms-related tyrosine kinase 1
Clonality	Polyclonal
Isotype	Rabbit IgG
Host	Rabbit
Species Reactivity	Rat
Form/Format	Liquid; 0.2um filtered solution in PBS
Purity/Purification	Protein A
Specificity	Rat VEGFR1/FLT-1
Preparation and Storage	This antibody can be stored at 2-8 degree C for one month without detectable loss of activity. Antibody products are stable for twelve months from date of receipt when stored at -20 degree C to -80 degree C. Preservative-Free. Avoid repeated freeze-thaw cycles.
Molecular Weight	150,250 Da
3D Structure	ModBase 3D Structure for P53767
Immunogen	Recombinant Rat VEGFR1/FLT-1 Protein
Conjugation	Unconjugated
Preparation	Produced in rabbits immunized with purified, recombinant Rat VEGFR1/FLT-1 (rR VEGFR1/FLT-1). Total IgG was purified by Protein A affinity chromatography.
Product Categories/Family for anti-FLT1 antibody	Cancer Drug Targets Receptor Tyrosine Kinases (RTKs)
Applications Tested/Suitable for anti-FLT1 antibody	ELISA (EIA)
Application Notes for anti-FLT1 antibody	ELISA: 1:1000-1:2000
Related Product Information for anti-FLT1 antibody	Vascular endothelial growth factor receptor 1, also known as VEGFR-1, Fms-like tyrosine kinase 1, Tyrosine-protein kinase FRT, Tyrosine-protein kinase receptor FLT, Vascular permeability factor receptor and FLT1, is a single-pass type I membrane protein and secreted protein which belongs to theprotein kinase superfamily, Tyr protein kinase family and CSF-1/PDGF receptor subfamily. VEGFR-1/FLT1 contains sevenIg-like C2-type (immunoglobulin-like) domains and oneprotein kinase domain. VEGFR-1/FLT1 is expressed mostly in normal lung, but also in placenta, liver, kidney, heart and brain tissues. It is specifically expressed in most of the vascular endothelial cells, and also expressed in peripheral blood monocytes. VEGFR-1/FLT1 is not expressed in tumor cell lines. VEGFR-1/FLT1 is an essential receptor tyrosine kinase that regulates mammalian vascular development and embryogenesis. EGF-induced angiogenesis requires inverse regulation of VEGFR-1 and VEGFR-2 in tumor-associated endothelial cells. VEGFR-1/FLT1 is a receptor for VEGF, VEGFB and PGF. It 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.

Product References and Citations for anti-FLT1 antibody	Shibuya M., et al., (1990), Nucleotide sequence and expression of a novel human receptor-type tyrosine kinase gene (flt) closely related to the fms family. Oncogene 5:519-524. Kendall R.L., et al., (1993), Inhibition of vascular endothelial cell growth factor activity by an endogenously encoded soluble receptor.Proc. Natl. Acad. Sci. U.S.A. 90:10705-10709. Herley M.T., et al., (1999), Characterization of the VEGF binding site on the Flt-1 receptor.Biochem. Biophys. Res. Commun. 262:731-738.
Other Notes	Small volumes of anti-FLT1 antibody vial(s) may occasionally become entrapped in the seal of the product vial during shipment and storage. If necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the container`s cap. Certain products may require to ship with dry ice and additional dry ice fee may apply.
Searchable Terms for FLT1 purchase	MBS8112758 is an antibody targeting FLT1. Also known as Anti-FLT1 Antibody, Rabbit Polyclonal. Reactive in Rat. Host: Rabbit.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for FLT1. It may not necessarily be applicable to this product.

NCBI GI #	1718161
NCBI GeneID	54251
NCBI Accession #	P53767.1
UniProt Primary Accession #	P53767
UniProt Related Accession #	P53767
NCBI Official Full Name	Vascular endothelial growth factor receptor 1
NCBI Official Synonym Full Names	FMS-related tyrosine kinase 1
NCBI Official Symbol	Flt1
NCBI Official Synonym Symbols	VEGFR-1
UniProt Protein Name	Vascular endothelial growth factor receptor 1
UniProt Synonym Protein Names	Fms-like tyrosine kinase 1; FLT-1; Tyrosine-protein kinase receptor FLT
Protein Family	Vascular endothelial growth factor receptor
UniProt Gene Name	Flt1
UniProt Synonym Gene Names	Flt-1; Vegfr1; VEGFR-1; FLT-1
UniProt Entry Name	VGFR1_RAT
NCBI Protein Information	vascular endothelial growth factor receptor 1; FLT-1; FMS-like tyrosine kinase 1; tyrosine-protein kinase receptor FLT; vascular endothelial growth factor receptor-1; Fms-related tyrosine kinase 1 (vascular endothelial growth factor/vascular permeability
NCBI Summary for FLT1	tyrosine kinase receptor for vascular endothelial growth factor; may play a role in cell proliferation and cell survival [RGD, Feb 2006]

UniProt Comments for FLT1	VEGFR1: a receptor tyrosine kinase of the VEGFR family. Receptor for VEGF, VEGFB and PGF. The VEGF-kinase ligand/receptor signaling system plays a key role in vascular development and regulation of vascular permeability. Two splice variant isoforms have been described. Isoform SFlt1 may have an inhibitory role in angiogenesis. Protein type: Protein kinase, tyrosine (receptor); Membrane protein, integral; Protein kinase, TK; EC 2.7.10.1; Kinase, protein; TK group; VEGFR family Cellular Component: focal adhesion; integral to plasma membrane; plasma membrane; receptor complex; endosome Molecular Function: vascular endothelial growth factor receptor activity; identical protein binding; growth factor binding; transmembrane receptor protein tyrosine kinase activity; receptor signaling protein tyrosine kinase activity; ATP binding Biological Process: peptidyl-tyrosine phosphorylation; activation of MAPKK activity; protein amino acid autophosphorylation; positive regulation of smooth muscle cell proliferation; chemotaxis; protein amino acid phosphorylation; positive regulation of vascular endothelial growth factor receptor signaling pathway; positive regulation of MAP kinase activity; monocyte chemotaxis; positive regulation of fibroblast proliferation; positive regulation of cell proliferation; angiogenesis; embryonic morphogenesis; cell differentiation; regulation of smooth muscle contraction; cell migration; intracellular receptor-mediated signaling pathway; positive regulation of phosphoinositide 3-kinase activity; patterning of blood vessels; positive regulation of phosphoinositide 3-kinase cascade; positive regulation of angiogenesis; response to hypoxia; blood vessel morphogenesis; sprouting angiogenesis; vascular endothelial growth factor receptor signaling pathway; transmembrane receptor protein tyrosine kinase signaling pathway; positive regulation of cell migration
Research Articles on FLT1	**1.** This study showed that angiogenic factors and MMP activators may reverse the decrease in MMPs and enhance growth-permissive remodeling in preeclampsia.
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