

Product datasheet for DP3522

VEGF Receptor 1 (FLT1) (C-term) Rabbit Polyclonal Antibody

Product data:

Product Type:	Primary Antibodies
Applications:	IF, WB
Recommended Dilution:	Western Blot: This VEGFR1 antibody can be used at 0.5-2.0 µg/ml with the appropriate secondary reagents to detect native Human sVEGFR-1/Flt-1. Immunofluorescence: 1-5 µg/ml.
Reactivity:	Human
Host:	Rabbit
Isotype:	IgG
Clonality:	Polyclonal
Immunogen:	Peptide of the unique C-terminal end of native Human soluble VEGFR-1/Flt-1
Specificity:	This antibody recognizes the recombinant soluble VEGFR-1/FLT-1 (native) but not the recombinant soluble VEGFR-1/FLT-1 (D1-5) both produced in Insects cells. Because of the different glycosylation of insect cells compared to mammalian cells the MW of sFlt-1 (native) is about 96 kDa instead of about 110 kDa of the naturally occurring sFlt-1. The antibody did not cross react with recombinant Human soluble KDR (D1-7).
Formulation:	PBS, pH 7.2 without preservatives or stabilizers State: Azide Free State: Lyophilized purified Ig fraction
Reconstitution Method:	Restore in sterile water to a concentration of 0.1-1.0 mg/ml
Purification:	Protein A Chromatography
Conjugation:	Unconjugated
Storage:	Store lyophilized at 2-8°C for 6 months or at -20°C long term. After reconstitution store the antibody undiluted at 2-8°C for one month or (in aliquots) at -20°C long term. Avoid repeated freezing and thawing.
Stability:	Shelf life: one year from despatch.
Gene Name:	fms related tyrosine kinase 1



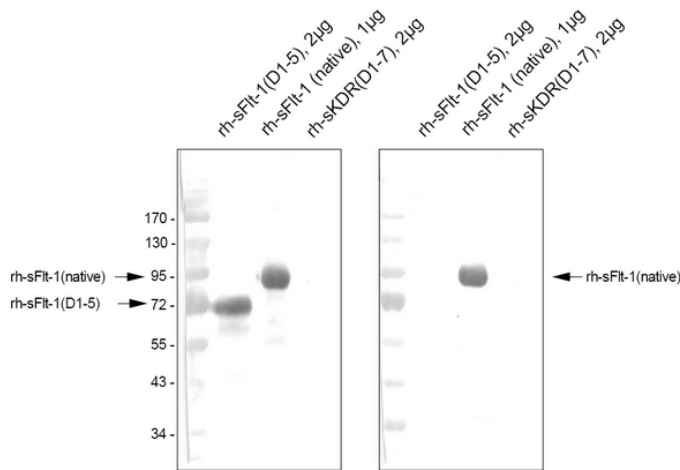
[View online »](#)

Database Link: [Entrez Gene 2321 Human P17948](#)

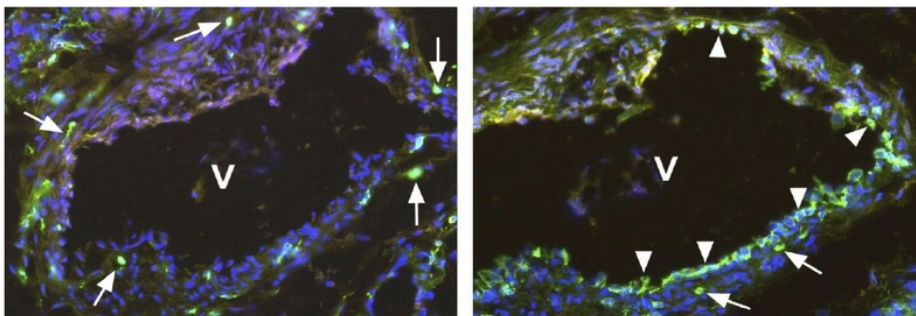
Background: Three cell membrane receptor tyrosine kinases, Flt (also designated VEGF-R1), Flk-1 (also designated VEGF-R2) and Flt-4, putatively involved in the growth of endothelial cells, are characterized by the presence of seven immunoglobulinlike sequences in their extracellular domain. These receptors exhibit high degrees of sequence relatedness to each other as well as lesser degrees of relatedness to the class III receptors, including CSF-1/Fms, PDGR, SLFR/Kit and Flt-3/Flk-2. Two members of this receptor class, Flt-1 and Flk-1, have been shown to represent high affinity receptors for vascular endothelial growth factors (VEGFs). On the basis of structural similarity to Flt and Flk-1, it has been speculated that Flt-4 might represent a third receptor for either VEGF or a VEGF-related ligand.

Synonyms: VEGFR1, FLT1, FLT, FRT, VEGF Receptor 1

Product images:



Western Blot: Detection of Human soluble VEGFR-1/Flt-1 by a specific polyclonal antibody. Left: Mouse anti-Human Flt-1 Monoclonal antibody ([DM3507]) Right: Rabbit anti-Human Flt-1 Polyclonal antibody (/S)



Immunofluorescence staining (green) using Polyclonal antibody directed against the C-terminal end of native soluble VEGFR-1/Flt-1 (Left panel) and Monoclonal antibody directed against the extracellular domain of the membrane-bound VEGFR-1/Flt-1 ([DM3507]) (Right panel). You see two neighboring sections of a Human Vein (V), located near a hemangioma. The antibody against the soluble VEGFR-1/Flt-1 marked single cells (arrows) within the media and adventitia of the vein. The antibody against the membrane-bound VEGFR-1/Flt-1 marked single cells (arrows) and the endothelium (arrowhead) of the vein. Cell nuclei are stained with Dapi (blue). The experiment was performed by K. Butler and J. Wilting, University Göttingen, Germany.