

FLT1

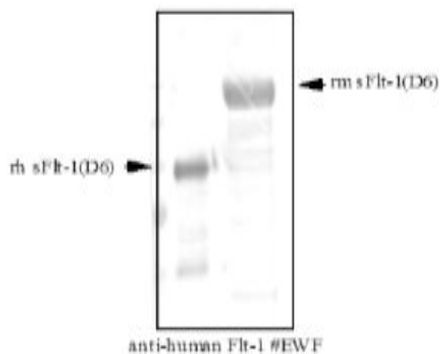
Mouse Anti-Human VEGFR1/FLT1 Clone EWF Biotin mAb

Catalog No.	CMV118	Quantity:	50 µg
Alternate Names:	FLT, fms-like tyrosine kinase 1, fms-related tyrosine kinase 1, Vascular Endothelial Growth Factor Receptor, Vascular Endothelial Growth Factor Receptor 1, VEGFC receptor		
Description:	<p>Recombinant Human Soluble Vascular Endothelial Growth Factor Receptor-1 (sVEGFR-1) is the naturally occurring form and was cloned from total RNA of human umbilical vein endothelial cells. The mature rh-sVEGFR-1 is a glycosylated monomeric protein with a mass of approximately 96kDa. The soluble receptor consists of the first 6 extracellular domains containing the unique 31 amino acids residues at the C-terminus.</p> <p>Endothelial cells express three different vascular endothelial growth factor (VEGF) receptors, belonging to the family of receptor tyrosine kinases (RTKs). They are named VEGFR-1 (Flt-1), VEGFR-2 (KDR/Flk-1), VEGFR-3 (Flt-4). Their expression is almost exclusively restricted to endothelial cells, but VEGFR-1 can also be found on monocytes, dendritic cells and on trophoblast cells. The flt-1 gene was first described in 1990. The receptor contains seven immunoglobulin-like extracellular domains, a single transmembrane region and an intracellular split tyrosine kinase domain. Compared to VEGFR-2 the Flt-1 receptor has a higher affinity for VEGF but a weaker signaling activity. VEGFR-1 thus leads not to proliferation of endothelial cells, but mediates signals for differentiation. Interestingly a naturally occurring soluble variant of VEGFR-1 (sVEGFR-1) was found in HUVE supernatants in 1996, which is generated by alternative splicing of the flt-1 mRNA.</p> <p>The biological functions of sVEGFR-1 still are not clear, but it seems to be an endogenous regulator of angiogenesis binding VEGF with the same affinity as the full-length receptor.</p>		
Gene ID:	2521		
Specificity:	The unconjugated antibody will detect native human VEGFR-1/Flt-1 in ELISA experiments and on the surface of different human cell types.		
Host:	Mouse		
Immunogen:	Recombinant human soluble Flt1 (D5)		
Isotype:	IgG1		
Clone:	EWF		
Conjugate:	Biotin		
Formulation:	Lyophilized in a buffer of PBS + 50x BSA + 0.02% sodium azide. Precaution: Sodium azide is a poisonous and hazardous substance which should be handled by trained staff only.		



- Purification:** Protein G chromatography
- Reconstitution:** **Centrifuge vial prior to opening.** Add sterile distilled water to the vial to fully solubilize the antibody to a concentration of 0.1-1.0 mg/ml.
- Applications:** Western Blot: Use at 2-5 µg/ml
ELISA: Use at 1-10 µg/ml
Immunoprecipitation: Use at 2-10 µg/ml
The optimal concentration should be determined by the user for each specific application.
- Storage & Stability:** The lyophilized antibody is stable at room temperature for up to 1 month. The reconstituted antibody is stable for at least two weeks at 2-8°C. Frozen aliquots are stable for at least 6 months when stored at -20°C. **Avoid repeated freeze-thaw cycles.**

Figure 1: Western analysis of recombinant human and mouse soluble VEGFR-1/Flt-1.



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