

## Product datasheet for **DM3506B**

### VEGF Receptor 1 (FLT1) Mouse Monoclonal Antibody [Clone ID: FLTEWF]

#### Product data:

Product Type:	Primary Antibodies
Clone Name:	FLTEWF
Applications:	ELISA, IF, IP, WB
Recommended Dilution:	<b>ELISA</b> (1-10 µg/ml). <b>Western blotting</b> (1-10 µg/ml). <b>Immunofluorescence.</b> <b>Immunoprecipitation</b> (2-10 µg/ml lysate or reaction volume).
Reactivity:	Human, Mouse
Host:	Mouse
Isotype:	IgG1
Clonality:	Monoclonal
Immunogen:	Recombinant Human soluble extracellular Flt-1 protein (D5) ( <i>Cat.-No</i> DA3539)
Specificity:	The unconjugated monoclonal antibody will recognize recombinant and naturally occurring form of VEGFR-1/Flt-1.
Formulation:	PBS Label: Biotin State: Lyophilized purified IgG fraction Stabilizer: 50X BSA Preservative: 0.02% Sodium Azide
Reconstitution Method:	Restore with distilled sterile water to a concentration of 0.1-1.0 mg/ml.
Purification:	Protein G Chromatography
Conjugation:	Biotin
Storage:	Prior to reconstitution store at 2-8°C. Following reconstitution store undiluted at 2-8°C for one month or (in aliquots) at -20°C for longer. Avoid repeated freezing and thawing.
Stability:	Shelf life: one year from despatch.
Gene Name:	fms related tyrosine kinase 1



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

**Background:** 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.

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