

Product datasheet for **DM3512P**

FLT4 Mouse Monoclonal Antibody [Clone ID: (3C3) 9D9]

Product data:

Product Type:	Primary Antibodies
Clone Name:	(3C3) 9D9
Applications:	ELISA, FC, IF, IHC, WB
Recommended Dilution:	ELISA: 0.5-1.5 µg/ml in direct ELISA, allows detection of 0.25-0.5 ng/well. FACS: 1-5 µg/ml. Immunofluorescence/Immunohistochemistry: 1-10 µg/ml. Western blot 0.5-1 µg/ml, detection limit is approximately 5 ng/lane under reducing conditions.
Reactivity:	Human
Host:	Mouse
Isotype:	IgG1
Clonality:	Monoclonal
Immunogen:	Purified recombinant Human Vascular Endothelial Growth Factor Receptor 3 (rh VEGFR-3/FLT-4) extracellular domain.
Specificity:	Detects Human VEGFR-3/FLT-4. Other species not tested.
Formulation:	PBS pH 7.4 without preservatives or stabilizers State: Aff - Purified State: Lyophilized purified IgG fraction
Reconstitution Method:	Restore with sterile water to a concentration of 0.1-1.0 mg/ml
Purification:	Affinity Chromatography on Protein G
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 4



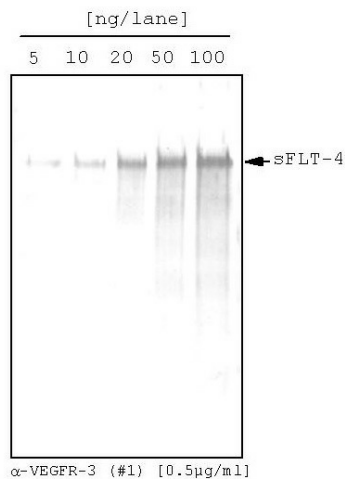
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Database Link: [Entrez Gene 2324 Human P35916](#)

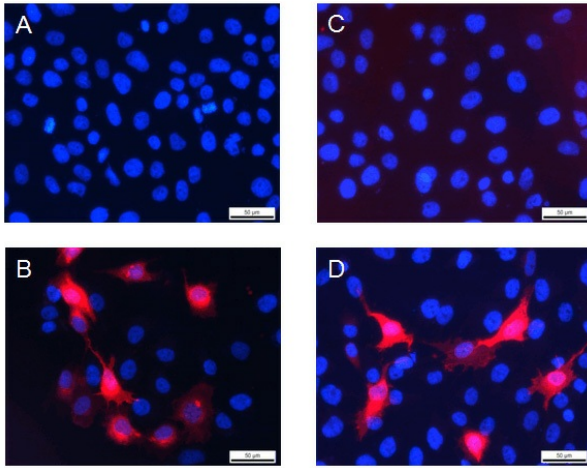
Background: VEGFR-1 (Flt-1), VEGFR-2 (KDR/Fik 1) and VEGFR-3 (FLT-4) belong to the class III subfamily of receptor tyrosine kinases (RTKs). All three receptors contain seven immunoglobulin-like repeats in their extracellular domains and kinase insert domains in their intracellular regions. The expression of VEGFR-1 to -3 is almost exclusively restricted to hematopoietic precursor cells, vascular and lymphatic endothelial cells and to the monocyte/macrophage lineage. These receptors play essential roles in vasculogenesis, hematopoiesis, angiogenesis and lymphangiogenesis. The VEGFR-3 cDNA encodes a 1298 amino acid (aa) residue precursor protein with a 24 aa residue signal peptide. Mature VEGFR-3 is composed of a 751 aa residue extracellular domain, a 22 aa residue transmembrane domain and a 482 aa residue cytoplasmic domain. Both VEGF-C and VEGF-D have been shown to bind and activate VEGF R3 (Flt-4). The Flt-4 gene is widely expressed in the early embryo but becomes restricted to the lymphatic endothelial a latter stage of development. It is important for lymphangiogenesis.

Synonyms: VEGFR3, FLT4, VEGF Receptor 3

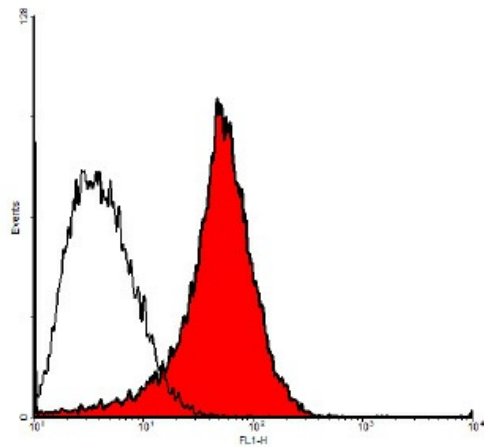
Product images:



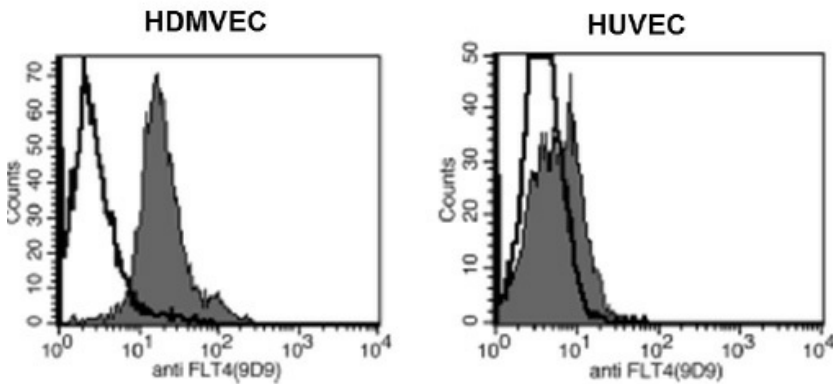
Western analysis of recombinant Human soluble VEGFR-3/FLT-4.



Immunofluorescence staining of human VEGFR-3/FLT-4 (red) in hFlt4-transfected MG63 cells. Monoclonal mouse anti-human FLT-4 clone 9D9 and polyclonal rabbit anti-human FLT-4 (D) [DP3511]: A and C are negative control with secondary antibody only; B (mAb) and D (pAb) with specific antibodies against human FLT-4. The experiment was performed by the research group of Dr. Wolfgang Holnthoner, Ludwig Boltzmann Institute for Experimental and Clinical Traumatology, Austrian Cluster for Tissue Regeneration, Donaueschingenstrasse 13, A-1200 Vienna, Austria.



FACS analysis with primary human dermal lymphatic endothelial cells (HDLEC).



FL FACS analysis with HDMVEC and HUVEC.