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Product datasheet for DP3511P

FLT4 Rabbit Polyclonal Antibody

Product data:

Product Type:	Primary Antibodies
Applications:	ELISA, FC, IHC, IP, WB
Recommended Dilution:	**ELISA:** 0.5-1.5 µg/ml, allows the detection of 0.25-0.5 ng/well rhVEGFR-3/FLT-4. **Western Blot:** 0.5-1 µg/ml, it will detect approximately 5 ng/lane of rh VEGFR-3/FLT-4 under reducing conditions depending on the visualisation method. **Immunoprecipitation:** 1-5 µg/ml lysate or reaction volume. **FACS:** Use 1-5 µg/ml **Immunofluorescence.** **Immunohistochemistry on Frozen sections.**
Reactivity:	Human
Host:	Rabbit
Isotype:	IgG
Clonality:	Polyclonal
Immunogen:	Recombinant human soluble FLT-4 protein (110 kDa).
Specificity:	The antibody will detect human VEGFR-3/FLT-4. In Western blots, this antibody shows a moderate cross-reactivity with VEGFR-2/KDR and a weak cross-reactivity with VEGFR-1/Flt-1.
Formulation:	PBS, pH 7.4 containing no preservatives or stabilizers State: Aff - Purified State: Lyophilized purified Ig fraction
Reconstitution Method:	Restore in sterile water to a concentration of 0.1-1 mg/ml.
Purification:	Protein A Affinity 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 4

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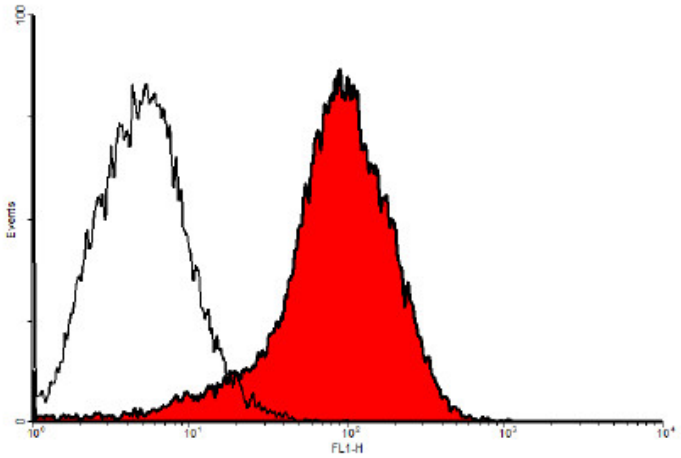
Database Link: Entrez Gene 2324 Human
P35916

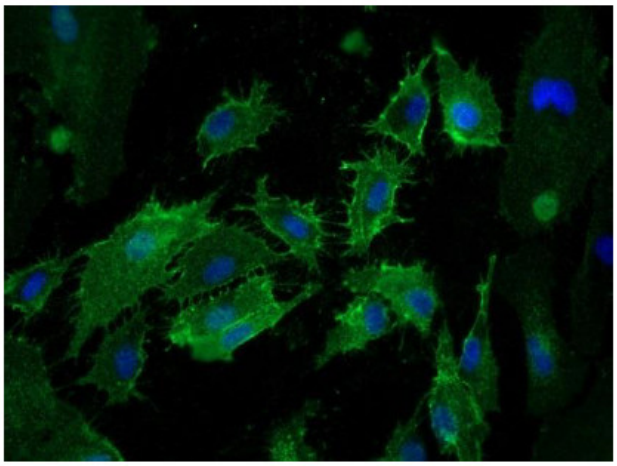
Background: The sVEGFR-3/FLT-4 monomers have a mass of approximately 120kDa. The soluble receptor protein consists of all 7 extracellular domains (Met1-Glu774). All three VEGF receptors belong to the class III subfamily of receptor tyrosine kinases (RTKs) characterised by the seven immunoglobulin-like loops in the extracellular domain. 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. They play key roles in vasculogenesis, hematopoiesis, angiogenesis and lymphangiogenesis. The FLT-4 cDNA encodes a 1298 amino acid (aa) residue precursor protein with a 23 aa residue signal peptide. Mature VEGFR-3/FLT-4 is composed of a 751 aa residue extracellular domain, a 22 aa transmembrane domain and a 482aa residue cytoplasmic domain. Both VEGF family members VEGF-C and VEGF-D have been shown to bind and activate VEGFR-3/FLT-4. The Flt-4 gene is widely expressed in the early embryo but becomes restricted to the lymphatic endothelial

Synonyms: VEGFR3, FLT4, VEGF Receptor 3

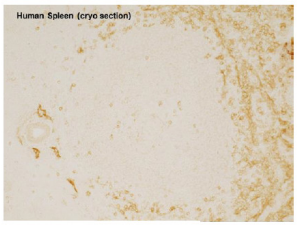
Product images:

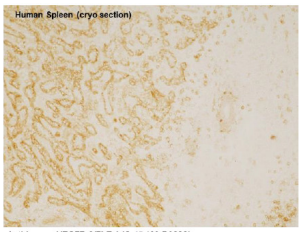


FACS analysis with primary human dermal lymphatic endothelial cells (HDLEC).

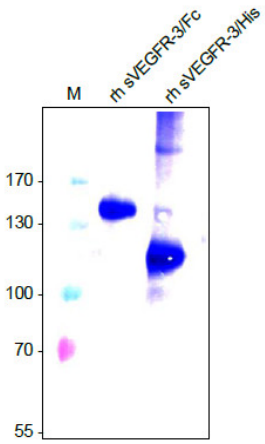


Immunofluorescence staining (green) of VEGFR-3/FLT4 in primary human dermal lymphatic endothelial cells (HDLEC) with anti-human VEGFR-3/FLT4 (10µg/ml) [Cat#[DP3511] and counter staining of nuclei with Dapi. As secondary antibody goat anti-rabbit ALEXA Flour 488 (Dianova) was used 1:800.





IHC with cryo sections of human spleen.



Western Analysis of anti-human VEGFR-3/FLT-4 Cat.N-[DP3511]. Samples were loaded in 7.5% SDS-polyacrylamide gel under reducing conditions.