



Anti-FLT1 polyclonal antibody [Biotin] (DPABY-576)

This product is for research use only and is not intended for diagnostic use.

PRODUCT INFORMATION

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| Antigen Description | VEGF R1 (Flt-1), VEGF R2 (KDR/Flk-1), and VEGF R3 (Flt-4) belong to the class III subfamily of receptor tyrosine kinases (RTKs). All three receptors contain seven immunoglobulin-like repeats in their extracellular domain and kinase insert domains in their intracellular region. They are best known for regulating VEGF family-mediated vasculogenesis, angiogenesis, and lymphangiogenesis. They are also mediators of neurotrophic activity and regulators of hematopoietic development. VEGF R2 is thought to be the primary inducer of VEGF-mediated blood vessel growth, while VEGF R3 plays a significant role in VEGF-C and VEGF-D-mediated lymphangiogenesis. |
| Specificity | Detects mouse VEGF R1 in ELISAs and Western blots. In sandwich ELISAs, less than 7% cross-reactivity with recombinant human VEGFR1 is observed, 4% cross-reactivity with recombinant mouse (rm) VEGF164 is observed, 1% cross-reactivity with recombinant rat VEGF164 is observed, and 0.2% cross-reactivity with rmVEGFR2 and rmVEGFR3 is observed. |
| Immunogen | Mouse myeloma cell line NS0-derived recombinant mouse VEGF R1/Flt-1. Ser27-Glu759 Accession Number P35969 |
| Isotype | IgG |
| Source/Host | Goat |
| Species Reactivity | Mouse |
| Purification | Antigen Affinity-purified |
| Conjugate | Biotin |
| Applications | Western Blot, Flow Cytometry, ELISA Detection (Matched Pair) |
| Format | Liquid |

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| Size | 50 µg |
| Buffer | Lyophilized from a 0.2 µm filtered solution in PBS with BSA as a carrier protein. |
| Preservative | None |
| Storage | Use a manual defrost freezer and avoid repeated freeze-thaw cycles. 12 months from date of receipt, -20 to -70 °C as supplied. 1 month, 2 to 8 °C under sterile conditions after reconstitution. 6 months, -20 to -70 °C under sterile conditions after reconstitution. |

GENE INFORMATION

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| Gene Name | Flt1 FMS-like tyrosine kinase 1 [Mus musculus (house mouse)] |
| Official Symbol | FLT1 |
| Synonyms | FLT1; FMS-like tyrosine kinase 1; Flt-1; sFlt1; VEGFR1; VEGFR-1; AI323757; vascular endothelial growth factor receptor 1; embryonic receptor kinase 2; tyrosine-protein kinase receptor FLT; vascular permeability factor receptor; vascular endothelial growth |
| Entrez Gene ID | 14254 |
| Protein Refseq | NP_034358 |
| UniProt ID | P35969 |
| Chromosome Location | 5 G; 5 87.01 cM |
| Pathway | Cytokine-cytokine receptor interaction; Endocytosis; Focal Adhesion; Focal adhesion; HIF-1 signaling pathway; Id Signaling Pathway; Neurophilin interactions with VEGF and VEGFR; PI3K-Akt signaling pathway; |
| Function | ATP binding; VEGF-A-activated receptor activity; VEGF-B-activated receptor activity; growth factor binding; identical protein binding; kinase activity; nucleotide binding; placental growth factor-activated receptor activity; protein kinase activity; prote |