



Anti-FLT1 polyclonal antibody (DPABY-285)

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

PRODUCT INFORMATION

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/Flt-1 in ELISAs and Western blots. In sandwich ELISAs, approximately 7% cross-reactivity with recombinant human VEGFR1 is observed, approximately 4% cross-reactivity with recombinant mouse (rm)VEGF164 is observed, less than 1% cross-reactivity with recombinant rat VEGF164 is observed, and less than 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	Unconjugated
Applications	Western Blot, Flow Cytometry, ELISA Capture (Matched Pair), Neutralization, Blockade of Receptor-ligand Interaction
Format	Liquid

Size	100 µg
Buffer	Lyophilized from a 0.2 µm filtered solution in PBS with Trehalose. See Certificate of Analysis for details.
Preservative	See individual product datasheet
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 from date of receipt, 2 to 8 °C, reconstituted. 6 months from date of receipt, -20 to -70 °C, reconstituted.

GENE INFORMATION

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