



Anti-FLT3L polyclonal antibody [Biotin] (DPABY-556)

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

PRODUCT INFORMATION

Antigen Description

Flt-3 Ligand, also known as FL, is an alpha-helical cytokine that promotes the differentiation of multiple hematopoietic cell lineages. Mature human Flt-3 Ligand consists of a 158 amino acid (aa) extracellular domain (ECD) with a cytokine-like domain and a juxtamembrane tether region, a 21 aa transmembrane segment, and a 30 aa cytoplasmic tail. Within the ECD, human Flt-3 Ligand shares 71% and 65% aa sequence identity with mouse and rat Flt-3 Ligand, respectively. Human and mouse Flt-3 Ligand show cross-species activity. Flt-3 Ligand is expressed as a noncovalently-linked dimer by T cells and bone marrow and thymic fibroblasts. Each 36 kDa chain carries approximately 12 kDa of N- and O-linked carbohydrates. Alternate splicing and proteolytic cleavage of the transmembrane form can generate a soluble 30 kDa fragment that includes the cytokine domain. Alternate splicing of human Flt-3 Ligand also generates membrane-associated isoforms that contain either a truncated cytoplasmic tail or an 85 aa substitution following the cytokine domain. Both transmembrane and soluble Flt-3 Ligand signal through the tyrosine kinase receptor Flt-3/Flk-2. Flt-3 Ligand induces the expansion of monocytes and immature dendritic cells as well as early B cell lineage differentiation. It synergizes with IL-3, GM-CSF, and SCF to promote the mobilization and myeloid differentiation of hematopoietic stem cells. It cooperates with IL-2, -6, -7, and -15 to induce NK cell development and with IL-3, -7, and -11 to induce terminal B cell maturation. Animal studies also show Flt-3 Ligand to reduce the severity of experimentally induced allergic inflammation.

Specificity	Detects human Flt-3 ligand in ELISAs and Western blots. In sandwich immunoassays, less than 0.05% cross-reactivity with rhPIGF, rmFlt-3 Ligand, rhVEGF and rhFlt-1 Fc chimera is observed.
Immunogen	S. frugiperda insect ovarian cell line Sf 21-derived recombinant human Flt-3 Ligand . Thr27-Pro185 Accession Number AAA17999
Isotype	IgG
Source/Host	Goat

Species Reactivity	Human
Purification	Antigen Affinity-purified
Conjugate	Biotin
Applications	Western Blot, ELISA Detection (Matched Pair)
Format	Liquid
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

Gene Name	FLT3LG fms-related tyrosine kinase 3 ligand [Homo sapiens (human)]
Official Symbol	FLT3LG
Synonyms	FLT3LG; fms-related tyrosine kinase 3 ligand; FL; FLT3L; flt3 ligand;
Entrez Gene ID	2323
Protein Refseq	NP_001191431
UniProt ID	B7ZLY4
Chromosome Location	19q13.3
Pathway	Cytokine-cytokine receptor interaction; Hematopoietic cell lineage; Pathways in cancer;
Function	cytokine activity; protein homodimerization activity; receptor binding; receptor tyrosine kinase binding;