

Mouse Flt-3/Flk-2 Biotinylated Antibody

Antigen Affinity-purified Polyclonal Goat IgG Catalog Number: BAF768

DESCRIPTION	
Species Reactivity	Mouse
Specificity	Detects mouse Flt-3/Flk-2 in Western blots. In Western blots, less than 2% cross-reactivity with recombinant human Flt-3 is observed.
Source	Polyclonal Goat IgG
Purification	Antigen Affinity-purified
Immunogen	Mouse myeloma cell line NS0-derived recombinant mouse Flt-3/Flk-2 Asn28-Ser544 Accession # Q00342
Formulation	Lyophilized from a 0.2 µm filtered solution in PBS with BSA as a carrier protein.

APPLICATIONS Please Note: Optimal dilutions should be determined by each laboratory for each application. General Protocols are available in the Technical Information section on our website. Recommended Concentration Western Blot 0.1 µg/mL Recombinant Mouse Flt-3/Flk-2 Fc Chimera (Catalog # 768-F3) Flow Cytometry 0.25 µg/10⁶ cells M1 mouse myeloid leukemia cell line

Flow Cytometry 100 100 100 103 103 104 105 Fit-3/Fik-2

Detection of Fit-3/Fik-2 in M1 cells by Flow Cytometry M1 cells were stained with Goat Anti-Mouse Fit-3/Fik-2 Biotinylated Antigen Affinity-purified Polyclonal Antibody (Catalog # BAF768, filled histogram) or isotype control antibody (Catalog # BAF108, open histogram) followed by Streptavidin-Allophycocyanin (Catalog # F0050). View our protocol for Staining Membrane-associated Proteins.

PREPARATION AND STORAGE	
Reconstitution	Reconstitute at 0.2 mg/mL in sterile PBS.
Shipping	The product is shipped at ambient temperature. Upon receipt, store it immediately at the temperature recommended below.
Stability & 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.

BACKGROUND

The FIt-3 (fms-like tyrosine kinase) receptor, also named FIk-2 (fetal liver kinase) and Stk-1 (stem cell tyrosine kinase) and designated CD135, is a member of the class III subfamily of receptor tyrosine kinases. This familay includes KIT, the receptor for SCF, and C-FMS, the receptor for M-CSF. The extracellular region of these receptors contains five immunoglobulin-like domains and the intracellular region contains a split kinase domain. Mouse FIt-3 cDNA encodes a 992 amino acid (aa) residue type I membrane protein with a 27 aa residue signal peptide, a 517 aa extracellular domain with 10 potential N-linked glycosylation sites, a 20 aa residue transmembrane domain and a 428 aa residue cytoplasmic domain. Mouse FIt-3 shares 85% amino acid sequence identity with human FIt-3. FIt-3 expression has been detected in various tissues, including placenta, gonads, and tissues of nervous and hematopoietic origin. Among hematopoietic cells, the expression of FIt-3 was found to be restricted to the highly enriched stem/progenitor cell populations. The ligand for FIt-3 (FL) has been identified to be a transmembrane protein with structural homology to M-CSF and SCF. Recombinant soluble FIt-3 Fc chimeric protein has been shown to bind FL with high affinity and is a potent FL antagonist.

References:

- 1. Rosnet, O. et al. (1996) Acta. Haemato. 95:218.
- 2. Drexler, H.G. (1996) Leukemia 10:588.

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