

## DESCRIPTION

<b>Species Reactivity</b>	Human
<b>Specificity</b>	Detect human Flt-3/Flk-2 in direct ELISAs. In direct ELISAs, no cross-reactivity with recombinant mouse Flt-3, recombinant human (rh) SCF R, rhPDGF R $\alpha$ , or rhPDGF R $\beta$ is observed.
<b>Source</b>	Monoclonal Mouse IgG <sub>1</sub> Clone # 66903
<b>Purification</b>	Protein A or G purified from hybridoma culture supernatant
<b>Immunogen</b>	Mouse myeloma cell line NS0-derived recombinant human Flt-3/Flk-2 Asn27-Asn541 Accession # AAA18947
<b>Conjugate</b>	Alexa Fluor 700 Excitation Wavelength: 675-700 nm Emission Wavelength: 723 nm
<b>Formulation</b>	Supplied 0.2 mg/mL in a saline solution containing BSA and Sodium Azide.  *Contains <0.1% Sodium Azide, which is not hazardous at this concentration according to GHS classifications. Refer to the Safety Data Sheet (SDS) for additional information and handling instructions.

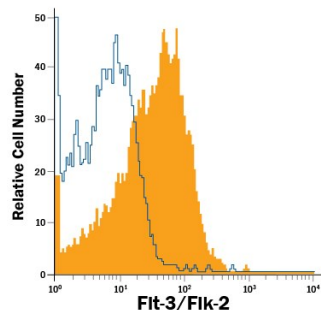
## APPLICATIONS

**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.

	<b>Recommended Concentration</b>	<b>Sample</b>
<b>Flow Cytometry</b>	0.25-1 µg/10 <sup>6</sup> cells	See Below

## DATA

### Flow Cytometry



**Detection of Flt-3/Flk-2 in THP-1 Human Cell Line by Flow Cytometry.** THP-1 human acute monocytic leukemia cell line was stained with Mouse Anti-Human Flt-3/Flk-2 Alexa Fluor® 700-conjugated Monoclonal Antibody (Catalog # FAB812N, filled histogram) or isotype control antibody (Catalog # IC002N, open histogram). View our protocol for [Staining Membrane-associated Proteins](#).

## PREPARATION AND STORAGE

**Shipping** The product is shipped with polar packs. Upon receipt, store it immediately at the temperature recommended below.

**Stability & Storage** **Protect from light. Do not freeze.**

- 12 months from date of receipt, 2 to 8 °C as supplied.

## BACKGROUND

The Flt-3 (*fms*-Like Tyrosine Kinase) Receptor, also known as Flk-2 (Fetal Liver Kinase) and Stk-1 (Stem cell Tyrosine Kinase) is a member of the class III subfamily of receptor tyrosine kinases that also includes KIT, the receptor for SCF and 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. Human Flt-3 cDNA encodes a 993 amino acid (aa) residue type I membrane protein with a 26 aa residue signal peptide, a 515 aa extracellular domain with 10 potential N-linked glycosylation sites, a 21 aa residue transmembrane domain and a 431 aa residue cytoplasmic domain. Mouse Flt-3 has also been cloned and shown to share 85% amino acid sequence identity with human Flt-3. Flt-3 expression has been detected in various tissues, including placenta, gonads, and tissues of nervous and hematopoietic origin. Among hematopoietic cells, the expression of Flt-3 was found to be restricted to the highly enriched stem/progenitor cell populations. The ligand for Flt-3 (FL) has been identified to be a transmembrane protein with structural homology to M-CSF and SCF. Recombinant soluble Flt-3/Fc chimeric protein has been shown to bind FL with high affinity and is a potent FL antagonist.

# Human Flt-3/Flk-2 Alexa Fluor® 700-conjugated Antibody

Monoclonal Mouse IgG<sub>1</sub> Clone # 66903

Catalog Number: FAB812N

100 µg

## PRODUCT SPECIFIC NOTICES

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