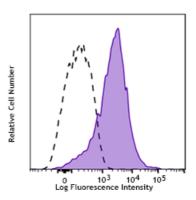
SONY

Spark NIR[™] 685 anti-human CD117 (c-kit)

Catalog # / Size:	2166250 / 100 tests 2166245 / 25 tests
Clone:	104D2
lsotype:	Mouse IgG1, к
Immunogen:	MOLM-1 megakaryocytic cell line
Reactivity:	Human, Non-human primate
Preparation:	The antibody was purified by affinity chromatography and conjugated with Spark NIR™ 685 under optimal conditions.
Formulation:	Phosphate-buffered solution, pH 7.2, containing 0.09% sodium azide and 0.2% (w/v) BSA (origin USA)
Workshop Number:	750 under optimal conditions.
Concentration :	Lot-specific



Human erythroleukemia cell line (HEL) was stained with antihuman CD117 (clone 104D2) Spark NIR[™] 685 (filled histogram) or mouse IgG1, κ Spark NIR[™] 685 isotype control (open histogram).

Applications:

Applications:	Flow Cytometry	5 105
Recommended Usage:	Each lot of this antibody is quality control tested by immunofluorescent staining with flow cytometric analysis. For flow cytometric staining, the suggested use of this reagent is 5 μ L per million cells in 100 μ L staining volume or 5 μ L per 100 μ L of whole blood. It is recommended that the reagent be titrated for optimal performance for each application.	Worke IgC1 × Ktochberculture
	* Spark NIR™ 685 has a maximum excitation of 665 nm and a maximum emission of 685 nm.	
Application Notes:	The 104D2 antibody does not block binding of c-Kit ligand. Additional reported applications (for the relevant formats) include: immunoprecipitation ¹ and immunofluorescence microscopy ¹ .	
Application References:	 Broudy VC, et al. 1999. Blood 94:1979. (Yoshino N, et al. 2000. Exp. Anim. (Tokyo Nagano M, et al. 2007. Blood 110:151. (o) 49:97. (FC)

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re p m b	D117 is a 145 kD protein tyrosine kinase also known as c-Kit. It is a eceptor for stem cell factor or c-Kit ligand. CD117 is expressed on duripotent hematopoietic progenitor cells (approximately 1-4% bone marrow cells), mast cells, and acute myeloid leukemia cells (AML). CD117 inding of c-Kit ligand induces phosphorylation of CD117 and stimulates proliferation and survival of primitive hematopoietic stem cells as well as arythroid-committed and granulo-monocytic committed cells.
p	luripotent hematopoietic progenitor cells (approximately 1-4% bone
m	marrow cells), mast cells, and acute myeloid leukemia cells (AML). CD117
b	inding of c-Kit ligand induces phosphorylation of CD117 and stimulates
p	proliferation and survival of primitive hematopoietic stem cells as well as

 Antigen
 1. Giebel LB, et al. 1992. Oncogene 7:2207.

 References:
 2. Furitsu T, et al. 1993. J. Clin. Invest. 92:1736.