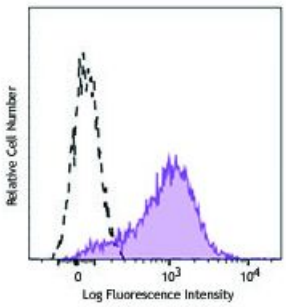
SONY

Product Data Sheet

APC/Fire™ 750 anti-human CD117 (c-kit)

Catalog # / Size:	2166195 / 25 tests 2166200 / 100 tests
Clone:	104D2
Isotype:	Mouse IgG1, κ
Immunogen:	MOLM-1 megakaryocytic cell line
Reactivity:	Human, Non-human primate
Preparation:	The antibody was purified by affinity chromatography and conjugated with APC/Fire&trade
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 CD117 (clone 104D2) APC/Fire™ 750 (filled histogram) or mouse IgG1, κ APC/Fire™ 750 isotype control (open histogram).

Applications:

Applications:	Flow Cytometry
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 µl per million cells in 100 µl staining volume or 5 µl per 100 µl of whole blood. * APC/Fire™ 750 has a maximum excitation of 650 nm and a maximum emission of 787 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:	1. Broudy VC, *et al.* 1999. *Blood* 94:1979. (IF, IP) 2. Yoshino N, *et al.* 2000. *Exp. Anim. (Tokyo)* 49:97. (FC) 3. Nagano M, *et al.* 2007. *Blood* 110:151. (FC) PubMed

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Description:	CD117 is a 145 kD protein tyrosine kinase also known as c-Kit. It is a receptor for stem cell factor or c-Kit ligand. CD117 is expressed on pluripotent hematopoietic progenitor cells (approximately 1-4% bone marrow cells), mast cells, and acute myeloid leukemia cells (AML). CD117 binding of c-Kit ligand induces phosphorylation of CD117 and stimulates proliferation and survival of primitive hematopoietic stem cells as well as erythroid-committed and granulo-monocytic committed cells.
Antigen References:	1. Giebel LB, *et al.* 1992. *Oncogene* 7:2207. 2. Furitsu T, *et al.* 1993. *J. Clin. Invest.* 92:1736.

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