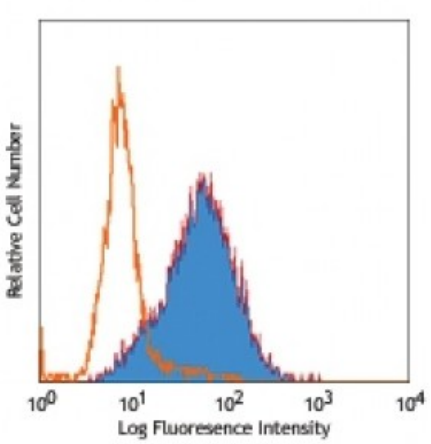
SONY

Product Data Sheet

Biotin anti-human CD117 (c-kit)

Catalog # / Size:	2166040 / 100 µg
Clone:	104D2
Isotype:	Mouse IgG1, κ
Immunogen:	MOLM-1 megakaryocytic cell line
Reactivity:	Human
Preparation:	The antibody was purified by affinity chromatography, and conjugated with biotin under optimal conditions. The solution is free of unconjugated biotin.
Formulation:	Phosphate-buffered solution, pH 7.2, containing 0.09% sodium azide.
Concentration:	0.5



Human erythroleukemic cell line TF-1 stained with biotinylated 104D2, followed by Sav-PE

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 ≤2.0 microg per million cells in 100 microL volume. It is recommended that the reagent be titrated for optimal performance for each application.
Application Notes:	The 104D2 antibody does not block binding of c-Kit ligand. Additional reported applications (for the relevant formats) include: immunoprecipitation1 and immunofluorescence microscopy1.
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

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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