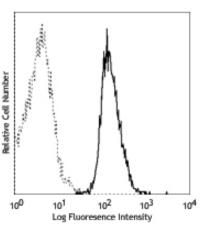


## **Product Data Sheet**

## APC anti-human CD117 (c-kit)

Catalog # / Size:	313205 / 25 tests 313206 / 100 tests	
Clone:	104D2	
Isotype:	Mouse IgG1, κ	
Immunogen:	MOLM-1 megakaryocytic cell line	- Aller
Reactivity:	Human, Cross-Reactivity: Cynomolgus, Cattle (Bovine, Cow)	1
Preparation:	The antibody was purified by affinity chromatography, and conjugated with APC under optimal conditions. The solution is free of unconjugated APC and unconjugated antibody.	and an other the
Formulation:	Phosphate-buffered solution, pH 7.2, containing 0.09% sodium azide and 0.2% (w/v) BSA (origin USA).	
Storage:	The antibody solution should be stored undiluted at 4°C and protected from prolonged exposure to light. <b>Do not freeze.</b>	
Applications:		



Human erythroleukemia cell line TF-1 stained with 104D2 APC

Applications: FC - Quality tested Recommended Usage: Each lot of this antibody is quality control tested by immunofluorescent staining with flow cytometric analysis. Test size products are transitioning from 20 µl to 5 µl per test. Please check your vial or your CoA to find the suggested use of this reagent per million cells in 100  $\mu$ l staining volume or per 100  $\mu$ l of whole blood. It is recommended that the reagent be titrated for optimal performance for each application. Read more at www.biolegend.com/testsize regarding the test size change. Application Notes: The 104D2 antibody does not block binding of c-Kit ligand. Additional reported applications (for the relevant formats) include: immunoprecipitation<sup>1</sup> and immunofluorescence microscopy<sup>1</sup>. 1. Broudy VC, *et al.* 1999. *Blood* 94:1979. (IF, IP) 2. Yoshino N, *et al.* 2000. *Exp. Anim. (Tokyo)* 49:97. (FC) **Application References:** 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. **Related Products: Product** Application Clone APC Mouse IgG1,  $\kappa$  Isotype Ctrl Cell Staining Buffer MOPC-21 FC, ICFC FC, ICC, ICFC FC, ICFC RBC Lysis Buffer (10X) Human TruStain FcX<sup>™</sup> (Fc Receptor Blocking Solution) FC. ICC. ICFC





\*These products may be covered by one or more Limited Use Label Licenses (see the BioLegend Catalog or our website, www.biolegend.com/ordering#license). BioLegend products may not be transferred to third parties, resold, modified for resale, or used to manufacture commercial products, reverse engineer functionally similar materials, or to provide a service to third parties without written approval of BioLegend. By use of these products you accept the terms and conditions of all applicable Limited Use Label Licenses. Unless otherwise indicated, these products are for research use only and are not intended for human or animal diagnostic, therapeutic or commercial use.