

Purified anti-human CD117 (c-kit)

Catalog # / Size: 313201 / 25 µg
313202 / 100 µg

Clone: 104D2

Isotype: Mouse IgG1, κ

Immunogen: MOLM-1 megakaryocytic cell line

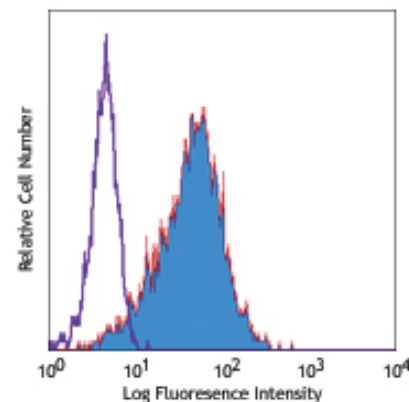
Reactivity: Human, **Cross-Reactivity:** Cynomolgus, Cattle (Bovine, Cow)

Preparation: The antibody was purified by affinity chromatography.

Formulation: Phosphate-buffered solution, pH 7.2, containing 0.09% sodium azide.

Concentration: 0.5 mg/ml

Storage: The antibody solution should be stored undiluted at 4°C.



Human myeloid cell line TF-1 stained with purified 104D2, followed by biotinylated anti-mouse IgGs and Sav-PE

Applications:

Applications: FC - *Quality tested*
IP, IF - *Reported in the literature*
CyTOF® - *Validated*

Recommended Usage: Each lot of this antibody is quality control tested by immunofluorescent staining with flow cytometric analysis. For immunofluorescent staining, the suggested use of this reagent is ≤2.0 µg per million cells in 100 µl 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.

Related Products: Product

Purified Mouse IgG1, κ Isotype Ctrl
APC Goat anti-mouse IgG (minimal x-reactivity)
PE Goat anti-mouse IgG (minimal x-reactivity)
Cell Staining Buffer
RBC Lysis Buffer (10X)

Clone

MOPC-21
Poly4053
Poly4053

Application

FC, ICFC, ICC, IF, IHC, IP, WB
FC
FC
FC, ICC, ICFC
FC, ICFC



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