Product Data Sheet

Alexa Fluor® 700 anti-human CD117 (c-kit)

Catalog # / 2166230 / 100 tests

Size: 2166225 / 25 tests

Clone: 104D2

Isotype: Mouse IgG1, κ

Immunogen: MOLM-1 megakaryocytic cell line

Reactivity: Human, Non-human primate, Other

Preparation: The antibody was purified by affinity

chromatography and conjugated with Alexa Fluor® 700 under optimal

conditions.

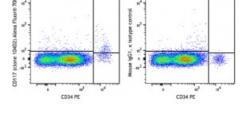
Formulation: Phosphate-buffered solution, pH 7.2,

containing 0.09% sodium azide and

0.2% (w/v) BSA (origin USA)

Workshop Number: V S056

Concentration: Lot-specific



Human peripheral blood mononuclear cells were stained with CD34 (clone 581) and CD117 (clone 104D2) Alexa Fluor® 700 (left) or mouse IgG1, κ Alexa Fluor® 700 isotype control (right). Data shown was gated on lineage-negative cells.

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 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

* Alexa Fluor® 700 has a maximum emission of 719 nm when it is excited at 633 nm / 635 nm. Prior to using Alexa Fluor® 700 conjugate for flow cytometric analysis, please verify your flow cytometer's capability of

exciting and detecting the fluorochrome.

each application.

Application The 104D2 antibody does not block binding of c-Kit ligand. Additional

binding of c-Kit ligand. Additional reported applications (for the relevant formats) include: immunoprecipitation¹ and immunofluorescence microscopy¹.

CD130 ELLC

CD130 LLC

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C57BL/6 splenocytes were stained with CD130 purified (followed by anti-rat IgG2b FITC) and purified IL-27R α (clone W16125D) (left) or purified rat IgG2a, κ isotype control (right), followed by anti-rat IgG2a PE.

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

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