Alexa Fluor® 647 anti-human CD117 (c-kit)

Catalog # / 2166175 / 25 tests

Size: 2166180 / 100 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® 647 under optimal

conditions.

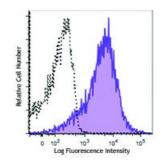
Formulation: Phosphate-buffered solution, pH 7.2,

containing 0.09% sodium azide and

BSA (origin USA).

Workshop Number: V A067

Concentration: Lot-specific



Human erythroleukemia cell line (HEL) was stained with CD117 (clone 104D2) Alexa Fluor® 647 (filled histogram) or mouse IgG1, kAlexa Fluor® 647 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 μ l per million cells or 5 μ l per 100 μ l of whole blood. It is recommended that the reagent be titrated for optimal performance for each application.

* Alexa Fluor® 647 has a maximum emission of 668 nm when it is excited

at 633 nm / 635 nm.

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.

O 103 104 105 Log Fluorescence Intensity

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 References: 2. Furitsu T,

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

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