Brilliant Violet 785™ anti-human CD117 (c-kit)

Catalog # / Size: 2166185 / 25 tests

2166190 / 100 tests

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 Brilliant Violet 785™ under optimal conditions. The solution is free of unconjugated Brilliant Violet 785™ and

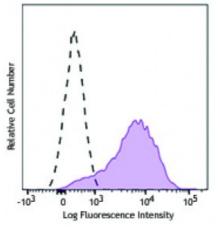
unconjugated antibody.

Formulation: Phosphate-buffered solution, pH 7.2,

containing 0.09% sodium azide and BSA

(origin USA).

Concentration: Lot-specific



Human erythroleukemia cell line (HEL) was stained with CD117 (clone 104D2) Brilliant Violet 785™ (filled histogram) or mouse IgG1, κ Brilliant Violet 785™ 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 microL per million cells or 5 microL per 100 microL of whole blood. It is recommended that the reagent be titrated for optimal performance for each application.

Brilliant Violet 785™ excites at 405 nm and emits at 785 nm. The bandpass filter 780/60 nm is recommended for detection, although filter optimization may be required depending on other fluorophores used. **Be sure to verify that your cytometer configuration and software setup are appropriate for detecting this channel.** Refer to your instrument manual or manufacturer for support. Brilliant Violet 785™ is a trademark of Sirigen Group Ltd.

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

1. Broudy VC, et al. 1999. Blood 94:1979. (IF, IP)

References: 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, <i>et al.</i> 1993. <i>J. Clin. Invest.</i> 92:1736.