

Product Data Sheet

Purified anti-human CD117 (c-kit)

Catalog # / Size: 323402 / 100 µg

Clone: A3C6E2

Isotype: Mouse IgG1, κ

Workshop Number: HLDA6

Immunogen: MOLM-1 megakaryocytic cell line

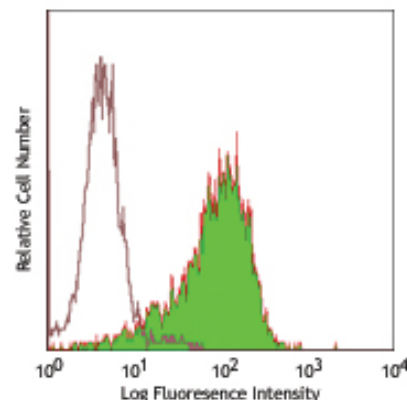
Reactivity: Human

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 erythroleukemic cell line TF-1 stained with purified A3C6E2, followed by biotinylated anti-mouse IgG and Sav-PE

Applications:

Applications: FC - Quality tested

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: Additional reported applications (for the relevant formats) include: Blocking the binding of SCF. The LEAF™ purified antibody (Endotoxin <0.1 EU/µg, Azide-Free, 0.2 µm filtered) is recommended for functional assays (Cat. No. 323404).

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 leukemic 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. The A3C6E2 antibody potently blocks the binding of SCF.

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)
 FITC Goat anti-mouse IgG (minimal x-reactivity)
 PE Goat anti-mouse IgG (minimal x-reactivity)
 Cell Staining Buffer

Clone
 MOPC-21
 Poly4053
 Poly4053
 Poly4053

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



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