

## PE/Cy5 anti-human CD117 (c-kit)

**Catalog # / Size:** 323412 / 100 tests

**Clone:** A3C6E2

**Isotype:** Mouse IgG1,  $\kappa$

**Workshop Number:** HLDA6

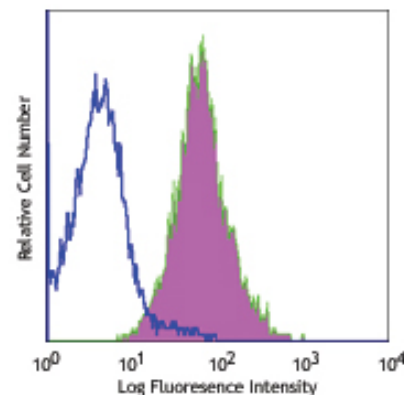
**Immunogen:** MOLM-1 megakaryocytic cell line

**Reactivity:** Human

**Preparation:** The antibody was purified by affinity chromatography, and conjugated with PE/Cy5 under optimal conditions. The solution is free of unconjugated PE/Cy5 and unconjugated antibody.

**Formulation:** Phosphate-buffered solution, pH 7.2, containing 0.09% sodium azide and 0.2% (w/v) BSA (origin USA).

**Storage:** The antibody solution should be stored undiluted at 4°C and protected from prolonged exposure to light. **Do not freeze.**



Human erythroleukemia cell line TF-1 stained with A3C6 PE/Cy5

## Applications:

**Applications:** FC - Quality tested

**Recommended Usage:** Each lot of this antibody is quality control tested by immunofluorescent staining with flow cytometric analysis. **Test size products are transitioning from 20  $\mu$ l to 5  $\mu$ l per test.** Please check your vial or your CoA to find the suggested use of this reagent per million cells in 100  $\mu$ l staining volume or per 100  $\mu$ l of whole blood. It is recommended that the reagent be titrated for optimal performance for each application. Read more at [www.biolegend.com/testsize](http://www.biolegend.com/testsize) regarding the test size change.

**Application Notes:** Additional reported applications (for the relevant formats) include: Blocking the binding of SCF. The LEAF™ purified antibody (Endotoxin <0.1 EU/ $\mu$ g, Azide-Free, 0.2  $\mu$ m filtered) is recommended for functional assays (Cat. No. 323404).

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**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:**

<b>Product</b>	<b>Clone</b>	<b>Application</b>
PE/Cy5 Mouse IgG1, $\kappa$ Isotype Ctrl	MOPC-21	FC, ICFC
Cell Staining Buffer		FC, ICC, ICFC
Human TruStain FcX™ (Fc Receptor Blocking Solution)		FC, ICC, ICFC



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