

## Biotin anti-human CD117 (c-kit)

**Catalog # / Size:** 323406 / 100 µg

**Clone:** A3C6E2

**Isotype:** Mouse IgG1, κ

**Workshop Number:** HLDA6

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

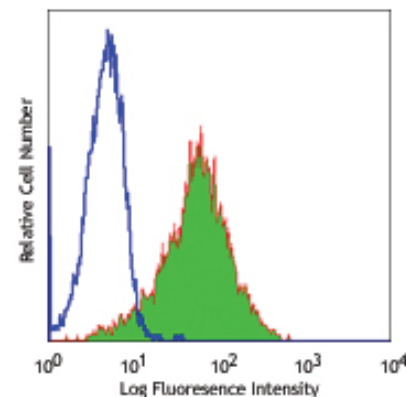
**Reactivity:** Human

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

**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. **Do not freeze.**



Human erythroleukemia cell line TF-1 stained with biotinylated A3C6, followed by 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**  
Biotin Mouse IgG1, κ Isotype Ctrl

APC Streptavidin

APC/Cy7 Streptavidin

PE Streptavidin

PE/Cy5 Streptavidin

PE/Cy7 Streptavidin

Cell Staining Buffer

Human TruStain FcX™ (Fc Receptor Blocking Solution)

### Clone

MOPC-21

### Application

FC, ICFC

FC, ICFC

FC, ICFC

FC, ICFC

FC, ICFC

FC, ICFC

FC, ICC, ICFC

FC, ICC, ICFC



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