

Product Data Sheet

PerCP/Cy5.5 anti-human CD117 (c-kit)

Catalog # / Size: 323416 / 100 tests

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 PerCP/Cy5.5 under optimal conditions. The solution is free of unconjugated PerCP/Cy5.5 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.**

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 5 μ l per 10⁶ cells in 100 μ l volume 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.

* PerCP/Cy5.5 has a maximum absorption of 482 nm and 564 nm and a maximum emission of 690 nm.

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

Cy3, Cy5, Cy5.5 and Cy7 are subject to proprietary rights of GE Healthcare Bio-Sciences Corp. and Carnegie Mellon University and made and sold under license from GE Healthcare Bio-Sciences Corp. Sale of this product is licensed for research use only.

Application References: 1. Oeztuerk-Winder F, *et al.* 2012. *EMBO J.* 31:3431. 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 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
 Cell Staining Buffer
 RBC Lysis Buffer (10X)
 PerCP/Cy5.5 Mouse IgG1, κ Isotype Ctrl
 Human TruStain FcX™ (Fc Receptor Blocking Solution)

Clone

MOPC-21

Application

FC, ICC, ICFC
 FC, ICFC
 FC, ICFC
 FC, ICC, ICFC



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