

Product Data Sheet

PE/Cy7 anti-mouse CD117 (c-kit)

Catalog # / Size: 135111 / 25 µg

135112 / 100 μg

Clone: ACK2

Isotype: Rat IgG2b, κ

Immunogen: Murine IL-3 dependent mast cells

Reactivity: Mouse

Preparation: The antibody was purified by affinity chromatography, and conjugated with

PE/Cy7 under optimal conditions. The solution is free of unconjugated

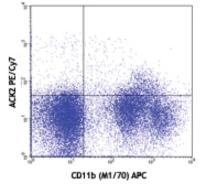
PE/Cy7 and unconjugated antibody.

Formulation: Phosphate-buffered solution, pH 7.2, containing 0.09% sodium azide.

Concentration: 0.2 mg/ml

Storage: The antibody solution should be stored undiluted at 4°C and protected from

prolonged exposure to light. Do not freeze.



Bone marrow cells from C57BL/6 mice stained with ACK2 PE/Cy7 and CD11b (M1/70) APC

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 ≤0.25 µg per million cells in 100 µl volume. It is recommended that the reagent be titrated for optimal performance for each

Application Notes: ACK2 has been reported to block c-Kit function. The LEAF™ purified antibody

(Endotoxin <0.1 EU/μg, Azide-Free, 0.2 μm filtered) is recommended for functional assays (Cat. No. 135103). For highly sensitive assays, we recommend Ultra-LEAF™ purified antibody (Cat. No. 135114) with a lower endotoxin limit than standard LEAF™ purified antibodies (Endotoxin <0.01

EU/µg).

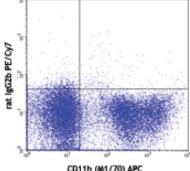
stem cells.

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. Yoshinaga K, et al. 1991. Development 113:689.

2. Broudy VC, et al. 1996. Blood 88:75.



Bone marrow cells from C57BL/6 mice stained with rat IgG2b PE/Cy7 isotype control and CD11b (M1/70)

Description: CD117 is a 145 kD immunoglobulin superfamily member, also known as c-Kit and stem cell factor receptor (SCFR). It is a transmembrane tyrosine-kinase receptor that binds the c-Kit ligand (also known as steel factor, stem cell factor, and mast cell growth factor). CD117 is expressed on hematopoietic stem cells (including multipotent hematopoietic stem cells, progenitors committed to myeloid and/or erythroid lineages, and T and B cell precursors), mast cells, and acute myeloid leukemia (AML) cells. CD117 interaction with its ligand is critical for the development of hematopoietic

Antigen References:

1. Barclay A et al. 1997. The Leukocyte Antigen FactsBook Academic Press. 2. Galli SJ. et al. 1994. Adv. Immunol. 55:1.

3. Ikuta K et al. 1992. Annu. Rev. Immunol. 10:759.

Besmer P et al. 1986. Nature 320:415.
Witte ON. et al. 1990. Cell 63:5.

Related Products: Product

Clone PE/Cy7 Rat IgG2b, κ Isotype Ctrl Cell Staining Buffer RTK4530 RBC Lysis Buffer (10X) TruStain fcX™ (anti-mouse CD16/32)

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



