

LEAF™ Purified anti-mouse CD117 (c-kit)

Catalog # / Size: 135104 / 500 µg

Clone: ACK2

Isotype: Rat IgG2b, κ

Immunogen: Murine IL-3 dependent mast cells

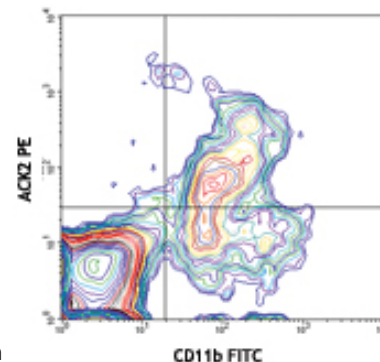
Reactivity: Mouse

Preparation: The LEAF™ (Low Endotoxin, Azide-Free) antibody was purified by affinity chromatography.

Formulation: 0.2 µm filtered in phosphate-buffered solution, pH 7.2, containing no preservative. Endotoxin level is <0.1 EU/µg of the protein (<0.01 ng/µg of the protein) as determined by the LAL test.

Concentration: 1.0 mg/ml

Storage: The antibody solution should be stored undiluted at 4°C. This LEAF™ solution contains no preservative; handle under aseptic conditions.



C57BL/6 mouse bone marrow cells stained with ACK2 PE and CD11b (M1/70) FITC

Applications:

Applications: FC - *Quality tested*
 Block, Depletion - *Reported in the literature*

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 or 100 µl of whole blood. It is recommended that the reagent be titrated for optimal performance for each application.

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).

Application References: 1. Yoshinaga K, *et al.* 1991. *Development* 113:689.
 2. Broudy VC, *et al.* 1996. *Blood* 88:75.

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 stem cells.

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

Related Products: Product

LEAF™ Purified Rat IgG2b, κ Isotype Ctrl

Cell Staining Buffer
 RBC Lysis Buffer (10X)

Clone

RTK4530

Application

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



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