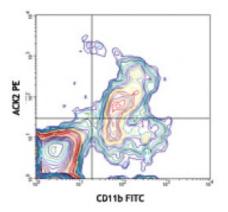
## **Product Data Sheet**

## Purified anti-mouse CD117 (c-kit)

Catalog # / Size:	1275505 / 50 μg 1275510 / 500 μg
Clone:	ACK2
Isotype:	Rat IgG2b, к
Immunogen:	Murine IL-3 dependent mast cells
Reactivity:	Mouse
Preparation:	The antibody was purified by affinity chromatography.
Formulation:	Phosphate-buffered solution, pH 7.2, containing 0.09% sodium azide
Concentration:	0.5



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

## **Applications:**

Applications:	Flow Cytometry
Recommended Usage:	Each lot of this antibody is quality control tested by immunofluorescent staining with flow cytometric analysis. For flow cytometric staining, the suggested use of this reagent is $\leq 0.06$ microg per million cells in 100 microL volume. It is recommended that the reagent be titrated for optimal performance for each application.
Application Notes:	Injection of ACK2 in mice of NOD genetic background is not recommended as mice develop immediate anaphylaxis, resulting in animal death. Treatment is possible with co-injection of Benadryl.3
	ACK2 has been reported to block c-Kit function. The LEAF <sup>™</sup> 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 <sup>™</sup> purified antibody (Cat. No. 135114) with a lower endotoxin limit than standard LEAF <sup>™</sup> purified antibodies (Endotoxin <0.01 EU/microg).
Application References:	1. Yoshinaga K, <i>et al.</i> 1991. <i>Development</i> 113:689. 2. Broudy VC, <i>et al.</i> 1996. <i>Blood</i> 88:75. 3. Louvet C, <i>et al.</i> 2008. <i>Proc. Natl. Acad. Sci. USA</i> 105:18895.
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:	<ol> <li>Barclay A <i>et al.</i> 1997. <i>The Leukocyte Antigen FactsBook Academic Press.</i></li> <li>Galli SJ. <i>et al.</i> 1994. <i>Adv. Immunol.</i> 55:1.</li> <li>Ikuta K <i>et al.</i> 1992. <i>Annu. Rev. Immunol.</i> 10:759.</li> <li>Besmer P</li> </ol>

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