

**anti-mouse CD117 PE-conjugated****Cat-No.: M22159P**      **1 ml****Clone:** ACK4**Specificity:**

The anti-mouse CD117 monoclonal antibody recognizes the receptor tyrosine kinase, c-kit. The ligand for this receptor is steel factor (stem cell factor), which exists in both soluble and membrane form. The interaction between steel factor and c-kit is essential for the development of hematopoietic, gonadal and pigment stem cells. c-kit positive cells are a subset of CD34+ hematopoietic precursor cells and it is expressed on 5-10% of total adult bone marrow cells.

**Isotype subclass:** Rat IgG2a**Form:** PE conjugated**Physical state:** Liquid**Buffer/Additives/Preservative:**

PBS containing 1 % BSA and 0.09 % sodium azide (pH 7.4).

**Expiration date:**

The reagent is stable until the expiry date stated on the vial label.

**Storage conditions:**

Store at 4 °C. Do not freeze. Avoid prolonged exposure to light.

**Application:**

Flow Cytometry

**References:**

- 1) Ogawa, M., Y. Matsuzaki, S. Nishikawa, S. Hayashi, T. Kunisada, T. Sudo, T. Kina, H. Nakauchi, S. Nishikawa. 1991. Expression and Function of c-kit in Hematopoietic Progenitor Cells. *J. Exp. Med.* 174:63-71
- 2) Suda, T., S. Okada, J. Suda, Y. Miura, M. Ito, T. Sudo, S. Hayashi, S. Nishikawa, H. Nakauchi. 1989. A Stimulatory Effect of Recombinant Murine Interleukin-7 (IL-7) on B-Cell Colony Formation and Inhibitory Effect of IL-1a. *Blood* 74(6):1936-1941

**Warning:**

Sodium azide is harmful if swallowed (R22). Keep out of reach of children (S2). Keep away from food, drink and animal feeding stuff (S13). Wear suitable protective clothing (S36). If swallowed, seek medical advice immediately and show this container or label (S46). Contact with acids liberates very toxic gas (R32). Azide compounds should be flushed with large volumes of water during disposal to avoid deposits in lead or copper plumbing where explosive conditions can develop.

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