

anti-human CD117 PE-conjugated

PE-conjugated monoclonal antibody to CD117

Cat-No: **21271174**

500 µl

Clone: 104D2

Specificity: The mouse monoclonal antibody 104D2 detects extracellular part of CD117 / c-Kit protooncogen. HLDA VI; WS Code C-30.

Isotype subclass: Mouse IgG1

Species Reactivity: Human, Non-Human Primates, Bovine

Form: The purified antibody is conjugated with R-Phycoerythrin (R-PE) under optimum conditions. The conjugate is purified by size-exclusion chromatography and adjusted for direct use. No reconstitution is necessary.

Physical state: Liquid

Buffer/Additives/Preservative: PBS containing 1% BSA and 0.09% sodium azide (pH 7.2)

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

Storage conditions: Store in the dark at 2-8°C. Do not freeze. Avoid prolonged exposure to light. Do not use after expiration date stamped on vial label.

Application: Flow Cytometry

Background: **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 leukemia 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

References:

- *) Broudy VC, Lin NL, Liles WC, Corey SJ, O'Laughlin B, Mou S, Linnekin D: Signaling via Src family kinases is required for normal internalization of the receptor c-Kit. *Blood*. 1999 Sep 15;94(6):1979-86.
- *) Yoshino N, Ami Y, Terao K, Tashiro F, Honda M: Upgrading of flow cytometric analysis for absolute counts, cytokines and other antigenic molecules of cynomolgus monkeys (*Macaca fascicularis*) by using anti-human cross-reactive antibodies. *Exp Anim*. 2000 Apr;49(2):97-110.
- *) Nagano M, Yamashita T, Hamada H, Ohneda K, Kimura K, Nakagawa T, Shibuya M, Yoshikawa H, Ohneda O: Identification of functional endothelial progenitor cells suitable for the treatment of ischemic tissue using human umbilical cord blood. *Blood*. 2007 Jul 1;110(1):151-60.

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.

This material is offered for **research use only**. Not for use in human. For in vitro use only. ImmunoTools will not be held responsible for patent infringement or other violations that may occur with the use of our products.

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