



Antibodies

1P-760-T025

Monoclonal Antibody to CD116 Phycoerythrin (PE) conjugated (25 tests)

Clone:	4H1
Isotype:	Mouse IgG1
Specificity:	The mouse monoclonal antibody 4H1 recognizes human CD116, the GM-CSF receptor alpha subunit (approx. 80 kDa) expressed e.g. by neutrophils, eosinophils, monocytes and macrophages.
Regulatory Status:	RUO
Immunogen:	CD116-transfected COS cells
Species Reactivity:	Human
Preparation:	The purified antibody is conjugated with R-Phycoerythrin (PE) under optimum conditions. The conjugate is purified by size-exclusion chromatography and adjusted for direct use. No reconstitution is necessary.
Storage Buffer:	The reagent is provided in stabilizing phosphate buffered saline (PBS) solution containing 15mM sodium azide.
Storage / Stability:	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.
Usage:	The reagent is designed for Flow Cytometry analysis of human blood cells using 10 µl reagent / 100 µl of whole blood or 10 ⁶ cells in a suspension. The content of a vial (0.25 ml) is sufficient for 25 tests.
Expiration:	See vial label
Lot Number:	See vial label
Background:	CD116 (GM-CSF R alpha) is the low affinity receptor for granulocyte-macrophage colony-stimulating factor (GM-CSF). CD116 heterodimerizes with CD131, the common beta chain subunit shared with IL-3 and IL5 receptors, to form the high affinity GM-CSF receptor. CD116 is expressed by myeloid cells including macrophages, neutrophils, eosinophils, dendritic cells, and their precursors, as well as on endothelial cells. It is being used as a specific marker of myeloid leukemias.
References:	Stomski FC, Woodcock JM, Zacharakis B, Bagley CJ, Sun Q, Lopez AF: Identification of a Cys motif in the common beta chain of the interleukin 3, granulocyte-macrophage colony-stimulating factor, and interleukin 5 receptors essential for disulfide-linked receptor heterodimerization and activation of all three receptors. <i>J Biol Chem.</i> 1998 Jan 9;273(2):1192-9. *Huntington ND, Legrand N, Alves NL, Jaron B, Weijer K, Plet A, Corcuff E, Mortier E, Jacques Y, Spits H, Di Santo JP: IL-15 trans-presentation promotes human NK cell development and differentiation in vivo. <i>J Exp Med.</i> 2009 Jan 16;206(1):25-34 *Koba C, Haruta M, Matsunaga Y, Matsumura K, Haga E, Sasaki Y, Ikeda T, Takamatsu K, Nishimura Y, Senju S: Therapeutic effect of human iPS-cell-derived myeloid cells expressing IFN-γ against peritoneally disseminated cancer in xenograft models. <i>PLoS One.</i> 2013 Jun 24;8(6):e67567 *Schwarzmaier D, Foell D, Weinhage T, Varga G, Däbritz J: Peripheral monocyte functions and activation in patients with quiescent Crohn's disease. <i>PLoS One.</i> 2013 Apr 26;8(4):e62761.

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