

1P-760-T100

Monoclonal Antibody to CD116 Phycoerythrin (PE) conjugated (100 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 μ l reagent / 100 μ l of whole blood or 10 $^{\circ}$ cells in a suspension.

The content of a vial (1 ml) is sufficient for 100 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:

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2013 Apr 26;8(4):e62761.

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