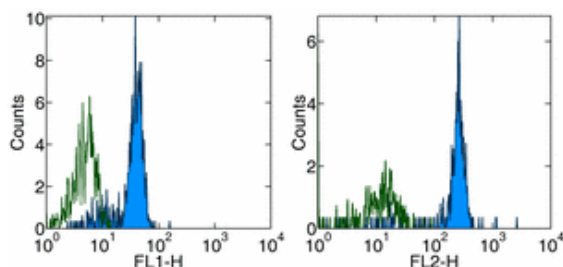


## Anti-Human CD116 Purified

Catalog Number: 14-1169

Also Known As: GM-CSF Receptor alpha, CSF2RA

RUO: For Research Use Only



Surface staining of normal human peripheral blood cells with Anti-Human CD116 FITC (left) and PE (right). Appropriate isotype controls were used (open histogram). Cells in the monocyte population were used for analysis.

### Product Information

Contents: Anti-Human CD116 Purified

**REF** Catalog Number: 14-1169

Clone: 4H1

Concentration: 0.5 mg/ml

Host/Isotype: Mouse IgG1,  $\kappa$

HLDA Workshop: N/A

Formulation: aqueous buffer, 0.09% sodium azide, may contain carrier protein/stabilizer



Temperature Limitation: Store at 2-8°C.



Batch Code: Refer to Vial



Use By: Refer to Vial



Caution, contains Azide

### Description

The 4H1 monoclonal antibody reacts with the human CD116 molecule, the  $\alpha$  subunit of GM-CSF receptor. The  $\alpha$  subunit associates with the common  $\beta$  chain (CD131) to form the high affinity receptor for GM-CSF. The GM-CSFR  $\alpha$  chain is expressed by granulocytes, monocytes, endothelial cells, fibroblasts and some tumor cells.

### Applications Reported

4H1 has been reported for use in flow cytometric analysis.

### Applications Tested

The 4H1 antibody has been tested by flow cytometric analysis of human peripheral blood leukocytes. This can be used at less than or equal to 1  $\mu$ g per test. A test is defined as the amount ( $\mu$ g) of antibody that will stain a cell sample in a final volume of 100  $\mu$ L. Cell number should be determined empirically but can range from  $10^5$  to  $10^8$  cells/test. It is recommended that the antibody be carefully titrated for optimal performance in the assay of interest.

### References

- Sun, Q., K. Jones, et al. (1999). Simultaneous antagonism of interleukin-5, granulocyte-macrophage colony-stimulating factor, and interleukin-3 stimulation of human eosinophils by targeting the common cytokine binding site of their receptors. *Blood* 94(6): 1943-51.
- Woodcock, J. M., B. J. McClure, et al. (1997). The human granulocyte-macrophage colony-stimulating factor (GM-CSF) receptor exists as a preformed receptor complex that can be activated by GM-CSF, interleukin-3, or interleukin-5. *Blood* 90(8): 3005-17.
- Lopez, A. F., M. A. Vadas, et al. (1991). Interleukin-5, interleukin-3, and granulocyte-macrophage colony-stimulating factor cross-compete for binding to cell surface receptors on human eosinophils. *J Biol Chem* 266(36): 24741-7.

### Related Products

11-4011 Anti-Mouse IgG FITC

11-4317 Streptavidin FITC

12-4317 Streptavidin PE

13-4013 Anti-Mouse IgG Biotin (Polyclonal)

14-4714 Mouse IgG1 K Isotype Control Purified

17-4317 Streptavidin APC

Not for further distribution without written consent.

Copyright © 2000-2010 eBioscience, Inc.

Tel: 888.999.1371 or 858.642.2058 • Fax: 858.642.2046 • [www.eBioscience.com](http://www.eBioscience.com) • [info@eBioscience.com](mailto:info@eBioscience.com)