

## Biotin anti-human CD116

**Catalog # / Size:** 305904 / 100 µg

**Clone:** 4H1

**Isotype:** Mouse IgG1, κ

**Immunogen:** Human GM-CSFRα transfected COS cells

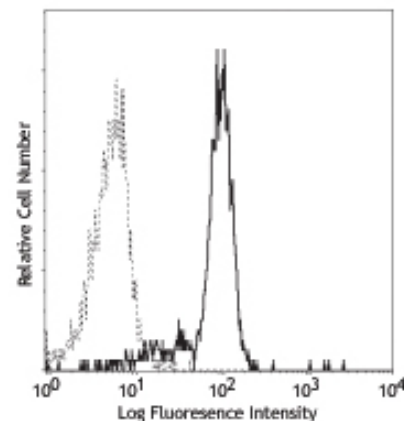
**Reactivity:** Human

**Preparation:** The antibody was purified by affinity chromatography, and conjugated with biotin under optimal conditions. The solution is free of unconjugated biotin.

**Formulation:** Phosphate-buffered solution, pH 7.2, containing 0.09% sodium azide.

**Concentration:** 0.5 mg/ml

**Storage:** The antibody solution should be stored undiluted at 4°C. **Do not freeze.**



Human peripheral blood monocytes stained with 4H1 FITC

## Applications:

**Applications:** FC - *Quality tested*

**Recommended Usage:** Each lot of this antibody is quality control tested by immunofluorescent staining with flow cytometric analysis. For immunofluorescent staining, the suggested use of this reagent is ≤1.0 µg per million cells in 100 µl volume. It is recommended that the reagent be titrated for optimal performance for each application.

**Application Notes:** Additional reported applications (for the relevant formats) include: immunoprecipitation<sup>2</sup>, Western blotting<sup>1</sup> and immunohistochemical staining of acetone-fixed frozen tissue sections.

**Application References:**

1. Stomski FC, *et al.* 1998. *J. Biol. Chem.* 273:1192. (WB)
2. McClure B, *et al.* 2001. *Blood* 98:3165. (IP)
3. Guthridge MA, *et al.* 2004. *Blood* 103:820.

**Description:** CD116 is a 70-85 kD α chain of the GM-CSF receptor. It combines with CDw131 β chain to form the high affinity GM-CSF receptor. A soluble form of CD116, which binds GM-CSF with a relatively low affinity, has been identified. In addition, an alternatively spliced form of CD116 with an altered cytoplasmic tail has been described. CD116 is expressed on various myeloid cells including monocytes, macrophages, neutrophils, eosinophils, dendritic cells and their precursors, fibroblasts, and endothelial cells. CD116 is expressed on myeloid leukemias, osteogenic sarcoma cell lines, osteoblast-like cells and breast and lung carcinoma cell lines.

**Antigen References:** 1. Miyajima A, *et al.* 1993. *Blood* 82:1960.

### Related Products:

Product	Clone	Application
PE anti-human CD131	1C1	FC
Biotin Mouse IgG1, κ Isotype Ctrl	MOPC-21	FC, ICFC
APC Streptavidin		FC, ICFC
FITC Streptavidin		FC, ICFC
PE Streptavidin		FC, ICFC
PE/Cy5 Streptavidin		FC, ICFC
Cell Staining Buffer		FC, ICC, ICFC
RBC Lysis Buffer (10X)		FC, ICFC
Human TruStain FcX™ (Fc Receptor Blocking Solution)		FC, ICC, ICFC



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