

Product Data Sheet

PE anti-human CD116

Catalog # / Size: 305908 / 100 tests

Clone: 4H1

Isotype: Mouse IgG1, κ

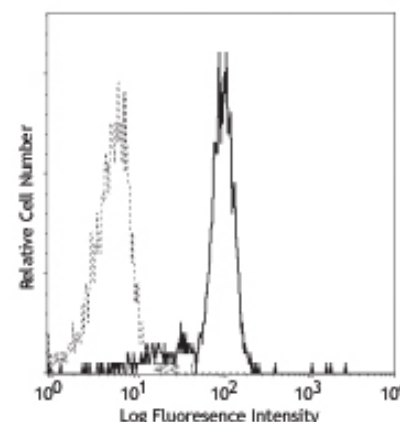
Immunogen: Human GM-CSFR α transfected COS cells

Reactivity: Human

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

Formulation: Phosphate-buffered solution, pH 7.2, containing 0.09% sodium azide and 0.2% (w/v) BSA (origin USA).

Storage: The antibody solution should be stored undiluted at 4°C and protected from prolonged exposure to light. **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. **Test size products are transitioning from 20 μ l to 5 μ l per test.** Please check your vial or your CoA to find the suggested use of this reagent per million cells in 100 μ l staining volume or per 100 μ l of whole blood. It is recommended that the reagent be titrated for optimal performance for each application. Read more at www.biolegend.com/testsize regarding the test size change.

Application Notes: Additional reported applications (for the relevant formats) include: immunoprecipitation², Western blotting¹ 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
PE Mouse IgG1, κ Isotype Ctrl	MOPC-21	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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