

Datasheet for ABIN1981895
anti-CSF2RA antibody (PE)

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Overview

Quantity:	100 tests
Target:	CSF2RA
Reactivity:	Human
Host:	Mouse
Clonality:	Monoclonal
Conjugate:	This CSF2RA antibody is conjugated to PE
Application:	Flow Cytometry (FACS)

Product Details

Immunogen:	CD116-transfected COS cells
Clone:	4H1
Isotype:	IgG1 kappa
Specificity:	The mouse monoclonal antibody 4H1 recognizes an extracellular epitope of human CD116, the GM-CSF receptor alpha subunit (approx. 80 kDa) expressed e.g. by neutrophils, eosinophils, monocytes and macrophages.
Cross-Reactivity (Details):	Human
Purification:	Purified antibody is conjugated with R-phycoerythrin (PE) under optimum conditions. Unconjugated antibody and free fluorochrome are removed by size-exclusion chromatography.

Target Details

Target:	CSF2RA
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Target Details

Alternative Name:	CD116 (CSF2RA Products)
Background:	Colony stimulating factor 2 receptor alpha subunit,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.,CSF2RA, GMR, CSF2R, SMDP4, GMCSFR
Gene ID:	1438
UniProt:	P15509
Pathways:	JAK-STAT Signaling

Application Details

Application Notes:	Flow cytometry: The reagent is designed for 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 (1 ml) is sufficient for 100 tests.
Comment:	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.
Restrictions:	For Research Use only

Handling

Buffer:	Stabilizing phosphate buffered saline (PBS), pH 7.4, 15 mM sodium azide
Preservative:	Sodium azide
Precaution of Use:	This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.
Handling Advice:	Do not freeze. Avoid prolonged exposure to light. Do not use after expiration date stamped on vial label. Short-term exposure to room temperature should not affect the quality of the reagent. However, if reagent is stored under any conditions other than those specified, the conditions must be verified by the user.

Handling

Storage: 4 °C

Storage Comment: Store at 2-8°C. Protect from prolonged exposure to light. Do not freeze.

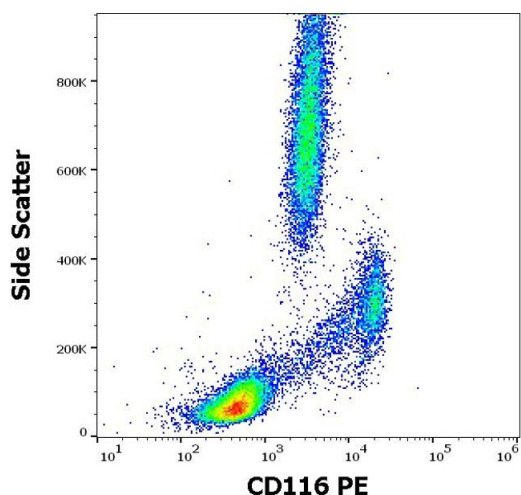
Publications

Product cited in: Schwarzmaier, Foell, Weinhage, Varga, Däbritz: "Peripheral monocyte functions and activation in patients with quiescent Crohn's disease." in: **PLoS ONE**, Vol. 8, Issue 4, pp. e62761, (2013) ([PubMed](#)).

Koba, Haruta, Matsunaga, Matsumura, Haga, Sasaki, Ikeda, Takamatsu, Nishimura, Senju: "Therapeutic effect of human iPS-cell-derived myeloid cells expressing IFN- γ against peritoneally disseminated cancer in xenograft models." in: **PLoS ONE**, Vol. 8, Issue 6, pp. e67567, (2013) ([PubMed](#)).

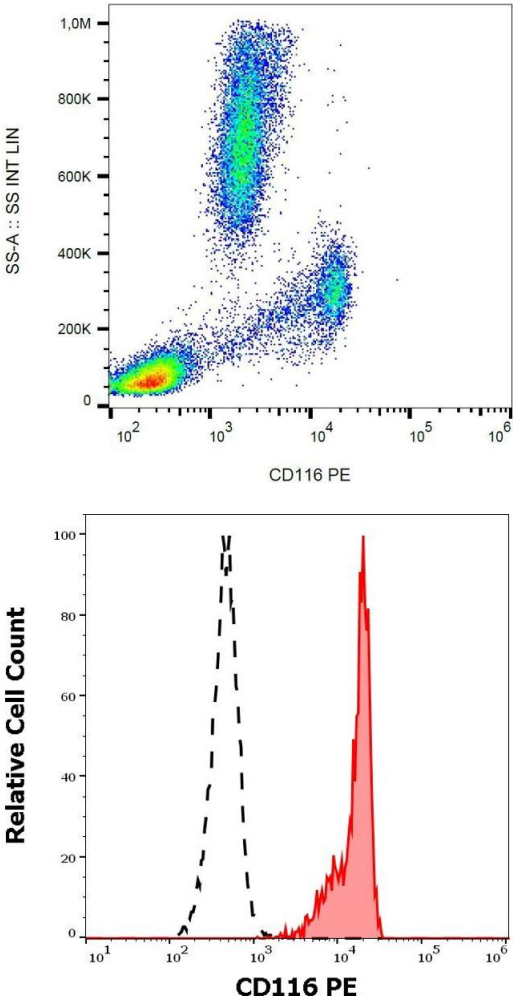
Huntington, Legrand, Alves, Jaron, Weijer, Plet, Corcuff, Mortier, Jacques, Spits, Di Santo: "IL-15 trans-presentation promotes human NK cell development and differentiation in vivo." in: **The Journal of experimental medicine**, Vol. 206, Issue 1, pp. 25-34, (2009) ([PubMed](#)).

Images



Flow Cytometry

Image 1. Flow cytometry surface staining pattern of human peripheral whole blood stained using anti-human CD116 (4H1) PE antibody (10 μ L reagent / 100 μ L of peripheral whole blood).



Flow Cytometry

Image 2. Surface staining (flow cytometry) of human peripheral blood with anti-CD116 (4H1) PE.

Flow Cytometry

Image 3. Separation of human monocytes (red-filled) from lymphocytes (black-dashed) in flow cytometry analysis (surface staining) of human peripheral whole blood stained using anti-human CD116 (4H1) PE antibody (10 µL reagent / 100 µL of peripheral whole blood).