Datasheet for ABIN1981902

anti-CSF2RA antibody

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Overview

Quantity:	0.1 mg
Target:	CSF2RA
Reactivity:	Human
Host:	Mouse
Clonality:	Monoclonal
Conjugate:	This CSF2RA antibody is un-conjugated
Application:	Western Blotting (WB), Immunoprecipitation (IP), Flow Cytometry (FACS), Immunohistochemistry (Frozen Sections) (IHC (fro)), Cytometry by Time of Flight (CyTOF)

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 by protein-A affinity chromatography.
Purity:	> 95 % (by SDS-PAGE)

Target Details

Target:	CSF2RA
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: Recommended dilution: 1-4 µg/mL.
Restrictions:	For Research Use only

Handling

Concentration:	1 mg/mL
Buffer:	Tris buffered saline (TBS), pH 8.0, 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. Do not use after expiration date stamped on vial label.
Storage:	4 °C
Storage Comment:	Store at 2-8°C. 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) (

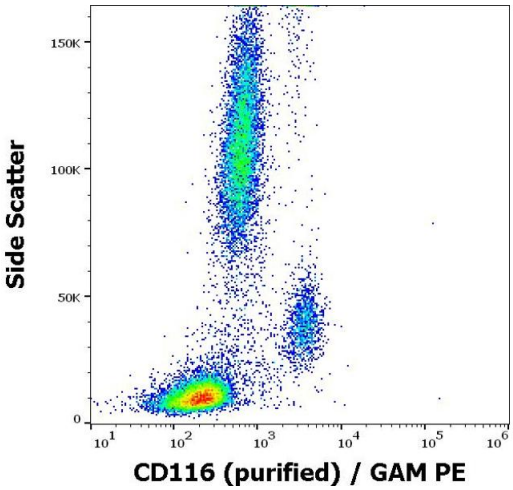
Publications

PubMed).

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

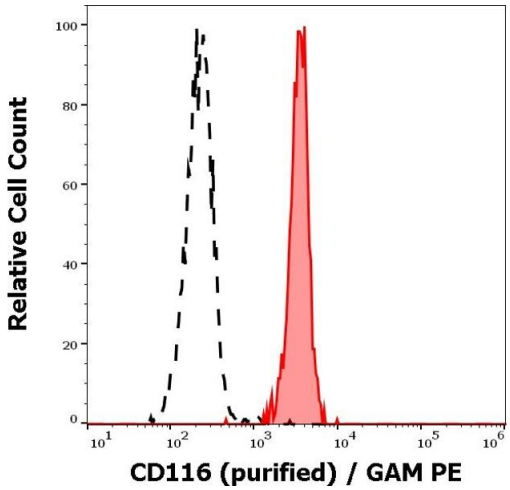
Huntington, Legrand, Alves, Jaron, Weijer, Plet, Corcuff, Mortier, Jacques, Spits, Di Santo: "IL-15 trans-presentation promotes human NK cell development and differentiation in vivo." in: **The Journal of experimental medicine**, Vol. 206, Issue 1, pp. 25-34, (2009) (PubMed).

Images



Flow Cytometry

Image 1. Flow cytometry surface staining pattern of human peripheral blood stained using anti-human CD116 (4H1) purified antibody (concentration in sample 3 µg/mL) GAM PE.



Flow Cytometry

Image 2. 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) purified antibody (concentration in sample 3 µg/mL) GAM PE.