ARG54204
anti-CD116 antibody [4H1] (PE)

Package: 50 tests
Store at: 4°C

Summary

Product Description	PE-conjugated Mouse Monoclonal antibody [4H1] recognizes CD116
Tested Reactivity	Hu
Tested Application	FACS
Specificity	The clone 4H1 recognizes human CD116, the GM-CSF receptor alpha subunit (approx. 80 kDa) expressed e.g. by neutrophils, eosinophils, monocytes and macrophages.
Host	Mouse
Clonality	Monoclonal
Clone	4H1
Isotype	IgG1
Target Name	CD116
Immunogen	CD116-transfected COS cells
Conjugation	PE
Alternate Names	Granulocyte-macrophage colony-stimulating factor receptor subunit alpha; GMCSFR; CDw116; GM-CSF-R-alpha; CD antigen CD116; CSF2R; CD116; GMR-alpha; CSF2RAX; CSF2RAY; GMCSFR-alpha; GMR; SMDP4; CSF2RX; CSF2RY

Application Instructions

Application table

Application	Dilution
FACS	10 µl / 10^6 cells

Application Note: * The dilutions indicate recommended starting dilutions and the optimal dilutions or concentrations should be determined by the scientist.

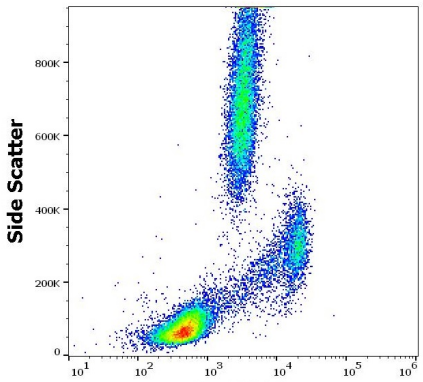
Properties

Form	Liquid
Purification Note	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.
Buffer	PBS, 15 mM Sodium azide and 0.2% (w/v) high-grade protease free BSA
Preservative	15 mM Sodium azide
Stabilizer	0.2% (w/v) high-grade protease free BSA
Storage instruction	Aliquot and store in the dark at 2-8°C. Keep protected from prolonged exposure to light. Avoid repeated freeze/thaw cycles. Suggest spin the vial prior to opening. The antibody solution should be gently mixed before use.
Note	For laboratory research only, not for drug, diagnostic or other use.

Bioinformation

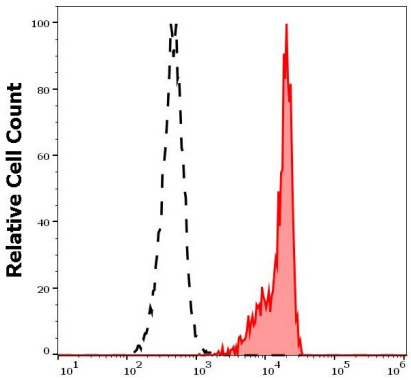
Database links	GeneID: 1438 Human Swiss-port # P15509 Human
Gene Symbol	CSF2RA
Gene Full Name	colony stimulating factor 2 receptor, alpha, low-affinity (granulocyte-macrophage)
Background	CD116 (GM-CSF R alpha) is the low affinity receptor for granulocyte-macrophage colony-stimulating factor (GM-CSF). 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.
Function	Low affinity receptor for granulocyte-macrophage colony-stimulating factor. Transduces a signal that results in the proliferation, differentiation, and functional activation of hematopoietic cells. [UniProt]
Research Area	Developmental Biology antibody; Immune System antibody
Calculated Mw	46 kDa

Images



ARG54204 anti-CD116 antibody [4H1] (PE) FACS image

Flow Cytometry: Human peripheral whole blood stained with ARG54204 anti-CD116 antibody [4H1] (PE) (10 µl reagent / 100 µl of peripheral whole blood).



ARG54204 anti-CD116 antibody [4H1] (PE) FACS image

Flow Cytometry: Separation of human monocytes (red-filled) from lymphocytes (black-dashed). Human peripheral whole blood stained with ARG54204 anti-CD116 antibody [4H1] (PE) (10 µl reagent / 100 µl of peripheral whole blood).