ARG65394
anti-CD116 antibody [4H1]

Package: 100 µg, 50 µg
Store at: -20°C

Summary

Product Description	Mouse Monoclonal antibody [4H1] recognizes CD116
Tested Reactivity	Hu
Tested Application	CyTOF®-candidate, FACS, IHC-Fr, IP, WB
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	Un-conjugated
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
CyTOF®-candidate	Assay-dependent
FACS	1 - 4 µg/ml
IHC-Fr	Assay-dependent
IP	Assay-dependent
WB	Assay-dependent

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

Properties

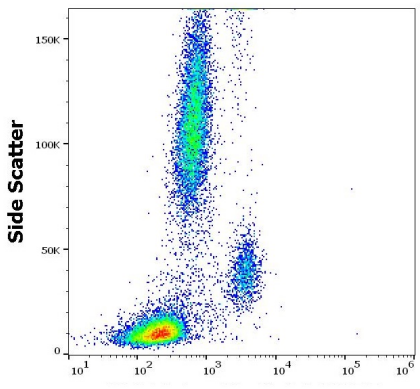
Form	Liquid
Purification	Purified from cell culture supernatant by protein-A affinity chromatography.
Purity	> 95% (by SDS-PAGE)
Buffer	TBS (pH 8.0) and 15 mM Sodium azide
Preservative	15 mM Sodium azide

Concentration	1 mg/ml
Storage instruction	For continuous use, store undiluted antibody at 2-8°C for up to a week. For long-term storage, aliquot and store at -20°C or below. Storage in frost free freezers is not recommended. 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

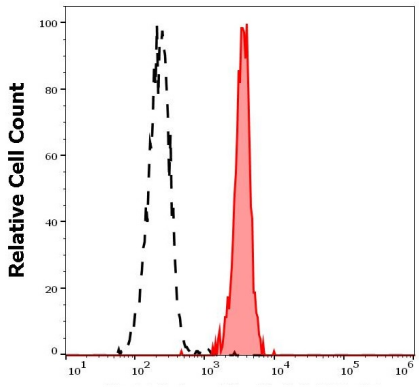
Database links	GeneID: 1438 Human Swiss-port # P15509 Human
Gene Symbol	CSF2RA
Gene Full Name	colony stimulating factor 2 receptor, alpha, low-affinity (granulocyte-macrophage)
Background	CD116 (GM-CSF R alpha) is the low affinity receptor for granulocyte-macrophage colony-stimulating factor (GM-CSF). 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]
Highlight	Related products: CD116 antibodies; CD116 ELISA Kits; Anti-Mouse IgG secondary antibodies; Related news: CyTOF-candidate Antibodies
Research Area	Developmental Biology antibody; Immune System antibody
Calculated Mw	46 kDa

Images



ARG65394 anti-CD116 antibody [4H1] FACS image

Flow Cytometry: Human peripheral blood stained with ARG65394 anti-CD116 antibody [4H1] at 3 µg/ml dilution, followed by PE-conjugated Goat anti-Mouse antibody.



ARG65394 anti-CD116 antibody [4H1] FACS image

Flow Cytometry: Separation of human monocytes (red-filled) from lymphocytes (black-dashed). Human peripheral whole blood stained with ARG65394 anti-CD116 antibody [4H1] at 3 µg/ml dilution, followed by PE-conjugated Goat anti-Mouse antibody.