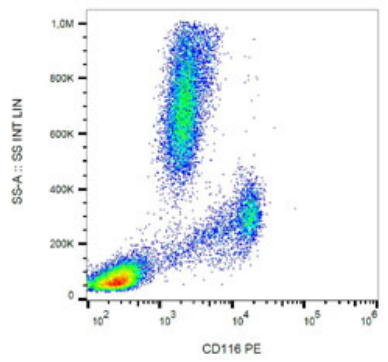
CSF2RA monoclonal antibody, clone 4H1

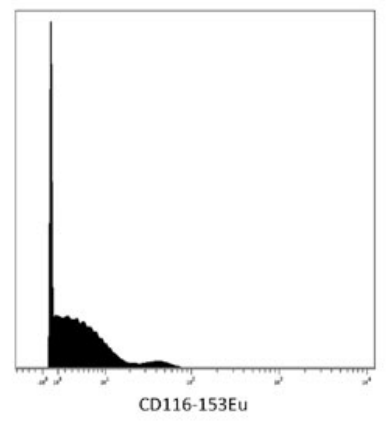
Catalog # MAB16947 Size 100 ug

Applications



Flow Cytometry

Flow cytometric analysis (surface staining) of human peripheral blood with anti-CSF2RA PE.



Mass Cytometry

Mass cytometry analysis (surface staining) of human peripheral blood with anti-CSF2RA 153Eu. Gated on singlets.

Specification

Product Description	Mouse monoclonal antibody raised against human CSF2RA.
Immunogen	CSF2RA-transfected COS cells.
Host	Mouse
Reactivity	Human

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Specificity	This antibody recognizes human CD116, the GM-CSF receptor alpha subunit (approxmately 80 kDa) expressed by neutrophils, eosinophils, monocytes and macrophages.
Form	Liquid
Purification	Protein A purification
Isotype	IgG1
Recommend Usage	Flow Cytometry Immunoprecipitation Immunohistochemistry (Frozen sections) Mass Cytometry Western Blot The optimal working dilution should be determined by the end user.
Storage Buffer	In TBS, pH 8.0 (15 mM sodium azide).
Storage Instruction	Store at 4°C. Do not freeze.
Note	This product contains sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which shoul d be handled by trained staff only.

Applications

- Flow Cytometry

  Flow cytometric analysis (surface staining) of human peripheral blood with anti-CSF2RA PE.

- Mass Cytometry

  Mass cytometry analysis (surface staining) of human peripheral blood with anti-CSF2RA 153Eu. Gated on singlets.

Gene Info — CSF2RA

Entrez GeneID	1438
Gene Name	CSF2RA
Gene Alias	CD116, CDw116, CSF2R, CSF2RAX, CSF2RAY, CSF2RX, CSF2RY, GM-CSF-R-alpha, GMC SFR, GMR, MGC3848, MGC4838
Gene Description	colony stimulating factor 2 receptor, alpha, low-affinity (granulocyte-macrophage)
Omim ID	306250 425000
Gene Ontology	Hyperlink

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Gene Summary	The protein encoded by this gene is the alpha subunit of the heterodimeric receptor for colony sti mulating factor 2, a cytokine which controls the production, differentiation, and function of granuloc ytes and macrophages. The encoded protein is a member of the cytokine family of receptors. Thi s gene is found in the pseudoautosomal region (PAR) of the X and Y chromosomes. Multiple tran script variants encoding different isoforms have been found for this gene, with some of the isofor ms being membrane-bound and others being soluble. [provided by RefSeq
Other Designations	CD116 antigen|GM-CSF receptor alpha subunit|OTTHUMP00000014504|OTTHUMP000000145 05|OTTHUMP00000014917|OTTHUMP00000014918|colony stimulating factor 2 receptor alpha chain|colony stimulating factor 2 receptor alpha subunit|granulocyte-macrophage colony-stimu

Publication Reference

- Therapeutic effect of human iPS-cell-derived myeloid cells expressing IFN-β against peritoneally disseminated cancer in xenograft models.

  Chihiro Koba, Miwa Haruta, Yusuke Matsunaga, Keiko Matsumura, Eriko Haga, Yuko Sasaki, Tokunori Ikeda, Koutaro Takamatsu, Yasuharu Nishimura, and Satoru Senju.

  PLoS One 2013 Jun; 8(6):e67567.

  Application: Flow Cyt, Human, Human induced pluripotent stem cells

- Peripheral monocyte functions and activation in patients with quiescent Crohn's disease.

  David Schwarzmaier, Dirk Foell, Toni Weinhage, Georg Varga, and Jan Dabritz.

  PLoS One 2013 Apr; 8(4):e62761.

  Application: Flow Cyt, Human, Human monocytes

- IL-15 trans-presentation promotes human NK cell development and differentiation in vivo.

  Nicholas D. Huntington, Nicolas Legrand, Nuno L. Alves, Barbara Jaron, Kees Weijer, Ariane Plet, Erwan Corcuff, Erwan Mortier, Yannick Jacques, Hergen Spits, and James P. Di Santo.

  The Journal of Experimental Medicine 2009 Jan; 206(1):25.

  Application: Flow Cyt, Human, Human myeloid cells, Human nature killer cells

Pathway

- Cytokine-cytokine receptor interaction
- Hematopoietic cell lineage
- Jak-STAT signaling pathway
- Pathways in cancer

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Disease

- Genetic Predisposition to Disease
- Schizophrenia

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