

Product datasheet

Anti-CD116 antibody [4H1] ab95681

1 Image

Overview

Product name	Anti-CD116 antibody [4H1]
Description	Mouse monoclonal [4H1] to CD116
Host species	Mouse
Tested applications	Suitable for: Flow Cyt
Species reactivity	Reacts with: Human
Immunogen	Tissue, cells or virus corresponding to Human CD116.
Positive control	Human peripheral blood leukocytes
General notes	This product was previously labelled as GM-CSF Receptor alpha

The Life Science industry has been in the grips of a reproducibility crisis for a number of years. Abcam is leading the way in addressing this with our range of recombinant monoclonal antibodies and knockout edited cell lines for gold-standard validation. Please check that this product meets your needs before purchasing.

If you have any questions, special requirements or concerns, please send us an inquiry and/or contact our Support team ahead of purchase. Recommended alternatives for this product can be found below, along with publications, customer reviews and Q&As

Properties

Form	Liquid
Storage instructions	Shipped at 4°C. Store at +4°C short term (1-2 weeks). Store at -20°C or -80°C. Avoid freeze / thaw cycle.
Storage buffer	pH: 7.20 Preservative: 0.09% Sodium azide Constituents: 0.87% Sodium chloride, PBS
Purity	Protein G purified
Clonality	Monoclonal
Clone number	4H1
Isotype	IgG1
Light chain type	kappa

Applications

The Abpromise guarantee

Our [Abpromise guarantee](#) covers the use of ab95681 in the following tested applications.

The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

Application	Abreviews	Notes
Flow Cyt		Use at an assay dependent concentration. Use primary antibody at 1 µg/test.

Target

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.

Involvement in disease

Defects in CSF2RA are the cause of pulmonary surfactant metabolism dysfunction type 4 (SMDP4) [MIM:300770]. A rare lung disorder due to impaired surfactant homeostasis. It is characterized by alveolar filling with floccular material that stains positive using the periodic acid-Schiff method and is derived from surfactant phospholipids and protein components. Excessive lipoproteins accumulation in the alveoli results in severe respiratory distress.

Sequence similarities

Belongs to the type I cytokine receptor family. Type 5 subfamily.

Domain

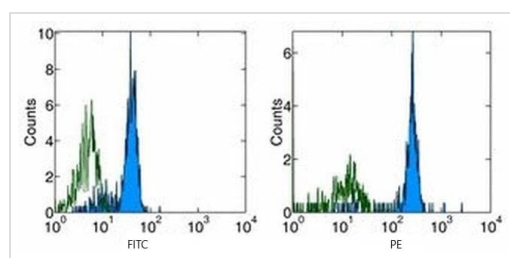
The WSXWS motif appears to be necessary for proper protein folding and thereby efficient intracellular transport and cell-surface receptor binding.

The box 1 motif is required for JAK interaction and/or activation.

Cellular localization

Secreted and Cell membrane.

Images



Flow Cytometry - Anti-CD116 antibody [4H1]
(ab95681)

Flow cytometry analysis of normal human peripheral blood cells labeling CD116 with ab95681 at 1 µg/test. Anti-CD116 FITC (left) and PE (right). Appropriate isotype controls were used (open histogram). Cells in the monocyte population were used for analysis.

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