

anti-human CD116

Monoclonal Antibody 4H1 to CD116 (Human)

Cat-No: 21121161

100 µg in 100 µl

Clone: 4H1

Specificity: CD116 belongs to the Ig superfamily, type 1 transmembrane glycoprotein, and is a 70-85 kD α chain of the GM-CSF receptor. It is distributed to monocytes, granulocytes, dendritic cells and endothelial precursors and is functional for myeloid hematopoietic cell proliferation and differentiation. It combines with CDw131 β chain to form the high affinity GM-CSF receptor. A soluble form of CD116, with binds GM-CSF with a relatively low affinity, has been identified. In addition, an alternatively spliced form of CD116 with an altered cytoplasmic tail has been described. CD116 is expressed on various myeloid cells including monocytes, macrophages, neutrophils, eosinophils, dendritic cells and their precursors, fibroblasts and endothelial cells. CD116 is expressed on myeloid leukemias, osteogenic sarcoma cell lines, osteoblast-like cells and breast and lung carcinoma cell lines.

Isotype subclass: Mouse IgG1,k

Form: The antibody was purified by affinity chromatography.

Purity: > 95% (by SDS-PAGE)

Physical state: Liquid

Buffer/Additives/Preservative: PBS with 0.09 % sodium azide (pH 7.2)

Expiration date: The reagent is stable until the expiry date stated on the vial label

Storage conditions: Store at -20 °C.

References:

1. Miyajima, A., et al., 1993. Blood 82:1960
2. Stomski, F.C., et al., 1998. J. Biol. Chem. 273:1192
3. McClure, B., et al., 2001. Blood 98:3165
4. Guthridge, M.A., et al., 2004. Blood 103:820

Application: Flow Cytometry, Immunohistochemistry (frozen sections – acetone fixation), Immunoprecipitation, Western Blot

Recommended Usage: Each lot of this antibody is quality control tested by immunofluorescent staining with flow cytometric analyses. For immunofluorescent staining, the suggested use of this reagent is < 1.0 µg per million cells in 100 µl volume or 100 µl of whole blood. It is recommended that the reagent be titrated for optimal performance for each application.

Warning: Sodium azide is harmful if swallowed (R22). Keep out of reach of children (S2). Keep away from food, drink and animal feeding stuff (S13). Wear suitable protective clothing (S36). If swallowed, seek medical advice immediately and show this container or label (S46). Contact with acids liberates very toxic gas (R32). Azide compounds should be flushed with large volumes of water during disposal to avoid deposits in lead or copper plumbing where explosive conditions can develop.

This material is offered for **research use only**. Not for use in human. For in vitro use only. ImmunoTools will not be held responsible for patent infringement or other violations that may occur with the use of our products.

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