

Anti-Human CD116 PE

Catalogue Number : 18211-60

RUO: For Research Use Only. Not for use in diagnostic procedures.

Product Information

Clone: 4H1

Format/Conjugate: PE

Concentration: 5 uL (0.5 ug)/test

Reactivity: Human

Laser: Blue (488nm)

Peak Emission: 578nm

Peak Excitation: 496nm

Filter: 585/40

Brightness (1=dim,5=brightest): 5

Isotype: Mouse IgG1, kappa

Formulation: Phosphate-buffered aqueous solution, ≤0.09% Sodium azide, may contain carrier protein/stabilizer, pH7.2.

Storage: Product should be kept at 2-8°C and protected from prolonged exposure to light.

Applications: FC

Description

The 4H1 monoclonal antibody specifically binds to human CD116, a 70-85 kD alpha chain of the GM-CSF receptor. It forms the high affinity GM-CSF receptor with CD131 as the beta chain. CD116 is expressed on macrophages, monocytes, eosinophils, dendritic cells, fibroblasts, neutrophils, and some tumor cells.

Preparation & Storage

The product should be stored undiluted at 4°C and should be protected from prolonged exposure to light. Do not freeze.

The monoclonal antibody was purified utilizing affinity chromatography and unreacted dye was removed from the product.

Application Notes

The antibody has been analyzed for quality through the flow cytometric analysis of the relevant cell type. The antibody can be used at less than or equal to 5 µL per test. A test is the amount of antibody required to stain a cell sample in the final volume of 100 µL.

References

1. Woodcock, J. M., McClure, B. J., Stomski, F. C., Elliott, M. J., Bagley, C. J., ; Lopez, A. F. (1997). The human granulocyte-macrophage colony-stimulating factor (GM-CSF) receptor exists as a preformed receptor complex that can be activated by GM-CSF, interleukin-3, or interleukin-5.; *Blood*,;90(8), 3005-3017.
2. Lopez, A. F., Vadas, M. A., Woodcock, J. M., Milton, S. E., Lewis, A., Elliott, M. J., ... ; Park, L. S. (1991). Interleukin-5, interleukin-3, and granulocyte-macrophage colony-stimulating factor cross-compete for binding to cell surface receptors on human eosinophils.; *Journal of Biological Chemistry*,;266(36), 24741-24747.
3. Guthridge, M. A., Barry, E. F., Felquer, F. A., McClure, B. J., Stomski, F. C., Ramshaw, H., ; Lopez, A. F. (2004). The phosphoserine-585;dependent pathway of the GM-CSF/IL-3/IL-5 receptors mediates hematopoietic cell survival through activation of NF-κB and induction of bcl-2.; *Blood*,;103(3), 820-827.