

## Anti-Human CD116 FITC

Catalog Number :18211-50

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

### Product Information

**Clone:** 4H1

**Format/Conjugate:** FITC

**Concentration:** 5 uL (1 ug)/test

**Reactivity:** Human

**Laser:** Blue (488nm)

**Peak Emission:** 520nm

**Peak Excitation:** 494nm

**Filter:** 530/30

**Brightness (1=dim,5=brightest):** 3

**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 bind 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.