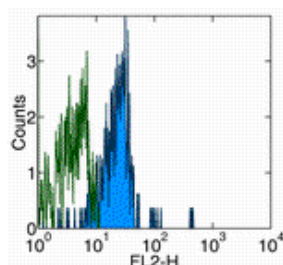


Anti-Human CD131 PE

Catalog Number: 12-1319

Also Known As: common beta subunit, Colony Stimulating Factor 2 Receptor beta, CSF2RB

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



Staining of normal human peripheral blood cells with Mouse IgG1 kappa Isotype Control PE (cat. 12-4714) or Anti-Human CD131 PE. Cells in the monocyte population were used for analysis.

Product Information

Contents: Anti-Human CD131 PE

REF **Catalog Number:** 12-1319


Clone: 1C1

Concentration: 5 µL (0.25 µg)/test

Host/Isotype: Mouse IgG1, kappa


HLDA Workshop: N/A

Formulation: aqueous buffer, 0.09% sodium azide, may contain carrier protein/stabilizer

 **Temperature Limitation:** Store at 2-8°C. Do not freeze. Light sensitive material.

LOT **Batch Code:** Refer to Vial

 **Use By:** Refer to Vial

 **Caution, contains Azide**

Description

The 1C1 monoclonal antibody reacts with the human CD131 molecule, also known as the common β subunit (β_c). The common β subunit associates with the specific α subunits of IL-3 receptor, IL-5 receptor and GM-CSF receptor to form high affinity receptors for these cytokines. These cytokine receptors are expressed by neutrophils, eosinophils, monocytes, endothelial cells, fibroblasts and hematopoietic progenitor cells and play a crucial role in growth/activation of eosinophils and in the inflammatory response.

Applications Reported

1C1 has been reported for use in flow cytometric analysis.

Applications Tested

This 1C1 antibody has been pre-titrated and tested by flow cytometric analysis of human peripheral blood leukocytes. This can be used at 5 µL (0.25 µg) per test. A test is defined as the amount (µg) of antibody that will stain a cell sample in a final volume of 100 µL. Cell number should be determined empirically but can range from 10^5 to 10^8 cells/test.

References

Sun, Q., K. Jones, et al. (1999). Simultaneous antagonism of interleukin-5, granulocyte-macrophage colony-stimulating factor, and interleukin-3 stimulation of human eosinophils by targeting the common cytokine binding site of their receptors. *Blood* 94(6): 1943-51.

Woodcock, J. M., B. J. McClure, et al. (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): 3005-17.

Lopez, A. F., M. A. Vadas, et al. (1991). Interleukin-5, interleukin-3, and granulocyte-macrophage colony-stimulating factor cross-compete for binding to cell surface receptors on human eosinophils. *J Biol Chem* 266(36): 24741-7.

Related Products

12-4714 Mouse IgG1 K Isotype Control PE (P3.6.2.1)