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## Anti-Human CD131 Purified

Catalog Number: 14-1319

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

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

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### Product Information

**Contents:** Anti-Human CD131 Purified

**REF** **Catalog Number:** 14-1319

**Clone:** 1C1

**Concentration:** 0.5 mg/mL

**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.

**LOT** **Batch Code:** Refer to Vial

 **Use By:** Refer to Vial

 **Caution, contains Azide**

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### Description

The 1C1 monoclonal antibody reacts with the human CD131 molecule, also known as the common  $\beta$  subunit ( $\beta_C$ ). The common  $\beta$  subunit associates with the specific  $\alpha$  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, immunoprecipitation, and immunoblotting (WB). 1C1 is a non-blocking antibody.

### Applications Tested

The 1C1 antibody has been tested by flow cytometric analysis of human peripheral blood leukocytes. This can be used at less than or equal to 1  $\mu$ g per test. A test is defined as the amount ( $\mu$ g) of antibody that will stain a cell sample in a final volume of 100  $\mu$ L. Cell number should be determined empirically but can range from  $10^5$  to  $10^8$  cells/test. It is recommended that the antibody be carefully titrated for optimal performance in the assay of interest.

### 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

11-4011 Anti-Mouse IgG FITC

14-4714 Mouse IgG1 K Isotype Control Purified (P3.6.2.1)

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