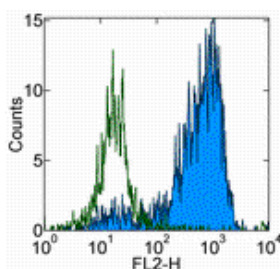


## Anti-Human CD163 PE

**Catalog Number:** 12-1639

**Also Known As:** M130, Hemoglobin Scavenger Receptor, Macrophage marker

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



Staining of normal human peripheral blood cells with Mouse IgG1 K Isotype Control PE (cat. 12-4714) (open histogram) or Anti-Human CD163 PE (filled histogram). Cells in the monocyte gate were used for analysis.

### Product Information

**Contents:** Anti-Human CD163 PE


**REF** **Catalog Number:** 12-1639

**Clone:** eBioGHI/61 (GHI/61)

**Concentration:** 5  $\mu$ L (0.25  $\mu$ g)/test

**Host/Isotype:** Mouse IgG1, kappa

**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

 **Contains sodium azide**

### Description

The eBioGHI/61 monoclonal antibody reacts with human CD163 (Haemoglobin Scavenger Receptor, M130), a member of the macrophage scavenger receptor family. CD163 is expressed by tissue macrophages, circulating blood monocytes, and some reports suggest that it may also be expressed by haematopoietic progenitor cells. CD163 functions as a high affinity scavenger receptor for the complex of haemoglobin and haptoglobin which forms to clear haemoglobin from the blood. The high affinity for CD163 is specific for the haemoglobin-haptoglobin complex, whereas haemoglobin or haptoglobin display no to low affinity toward CD163. Upon ligand binding, CD163 initiates signal transduction which leads to the production of IL-6 and IL-10. Furthermore, it has been demonstrated that cytokines such as IL-6 and IL-10 can induce expression of CD163, whereas proinflammatory stimuli, such as LPS or TNF alpha, can cause shedding of a soluble form of CD163, whose function is unclear.

### Applications Reported

This eBioGHI/61 (GHI/61) antibody has been reported for use in flow cytometric analysis.

### Applications Tested

This eBioGHI/61 (GHI/61) antibody has been pre-titrated and tested by flow cytometric analysis of normal human peripheral blood cells. This can be used at 5  $\mu$ L (0.25  $\mu$ g) per test. A test is defined as the amount ( $\mu$ g)/test 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.

### References

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Hogger P, Dreier J, Droste A, Buck F, Sorg C. Identification of the integral membrane protein RM3/1 on human monocytes as a glucocorticoid-inducible member of the scavenger receptor cysteine-rich family (CD163). *J Immunol.* 1998 Aug 15;161(4):1883-90.

Law SK, Micklem KJ, Shaw JM, Zhang XP, Dong Y, Willis AC, Mason DY. A new macrophage differentiation antigen which is a member of the scavenger receptor superfamily. *Eur J Immunol.* 1993 Sep;23(9):2320-5. (GHI/61, FC, PubMed)

Pulford K, Micklem K, McCarthy S, Cordell J, Jones M, Mason DY. A monocyte/macrophage antigen recognized by the four antibodies GHI/61, Ber-MAC3, Ki-M8 and SM4. *Immunology.* 1992 Apr;75(4):588-95. (GHI/61, FC, PubMed)

### Related Products

12-4714 Mouse IgG1 K Isotype Control PE (P3.6.2.8.1)

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