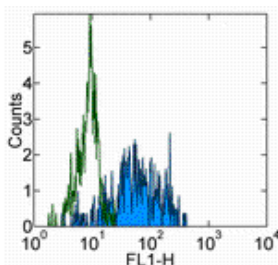


Anti-Human CD163 Purified

Catalog Number: 14-1639

Also Known As: M130, Haemoglobin Scavenger Receptor, Macrophage marker

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



Staining of normal human peripheral blood cells with 0.25 μ g of Mouse IgG1 K Isotype Control Purified (cat. 14-4714) (open histogram) or 0.25 μ g of Anti-Human CD163 Purified (filled histogram) followed by Anti-Mouse IgG FITC (cat. 11-4011). Cells in the monocyte gate were used for analysis.

Product Information

Contents: Anti-Human CD163 Purified

REF **Catalog Number:** 14-1639

Clone: eBioGHI/61 (GHI/61)

Concentration: 0.5 mg/mL

Host/Isotype: Mouse IgG1, kappa

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



Temperature Limitation: Store at 2-8°C.



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, and immunoblotting (WB).

Applications Tested

This eBioGHI/61 (GHI/61) antibody has been tested by flow cytometric analysis of normal human peripheral blood cells. This can be used at less than or equal to 0.5 μ g per test. A test is defined as the amount (μ g) of antibody that will stain a cell sample in a final volume of 100 μ 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

Matthews KE, Mueller SG, Woods C, Bell DN. Expression of the hemoglobin-haptoglobin receptor CD163 on hematopoietic progenitors. *Stem Cells Dev.* 2006 Feb;15(1):40-8.

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

00-4300 10X RBC Lysis Buffer (Multi-species)

00-5333 1-step Fix/Lyse Solution (10X)

11-4011 Anti-Mouse IgG FITC

13-4013 Anti-Mouse IgG Biotin (Polyclonal)
14-4714 Mouse IgG1 K Isotype Control Purified (P3.6.2.8.1)
17-4317 Streptavidin APC

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