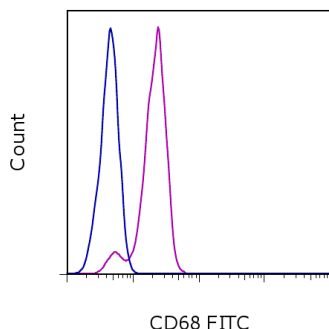


Anti-Human CD68 FITC

Catalog Number: 11-0689

Also known as: macrosialin

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



Intracellular staining of normal human peripheral blood cells with Mouse IgG2b K Isotype Control FITC (cat. 11-4732) (blue histogram) or Anti-Human CD68 FITC (purple histogram). Cells in the monocyte gate were used for analysis.

Product Information

Contents: Anti-Human CD68 FITC



Catalog Number: 11-0689

Clone: eBioY1/82A (Y1/82A)

Concentration: 5 μ L (0.125 μ g)/test

Host/Isotype: Mouse IgG2b, 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.

Batch Code: Refer to vial

Use By: Refer to vial

Contains sodium azide

Description

The eBioY1/82 antibody reacts with CD68 which belongs to the sialomucin family and is closely related to the family of lysosomal-associated membrane proteins (lamps) and scavenger receptor. CD68 is predominantly an intracellular protein, found mainly in the late endosomal compartment but can be detected in smaller amounts on the surface of cells of mainly myeloid derived cells; monocytes and macrophages, dendritic cells (and in some langerhan cells), neutrophils, basophils mast cells, myeloid progenitor cells, and a subset of CD34+ hemopoietic bone marrow progenitor cells. The function has not been fully elucidated but based on it's homolgy and structure suggests a role in antigen processing or presentation and protection of the lysosomal membrane from hydrolytic enzymes. Reports have also seen expression in activated T cells, and about 40% of peripheral blood B-lymphocytes and 50% of all B-ALL.

Staining with eBioY1/82A shows surface staining on B cells and a minor percentage of monocytes while intracellular staining results in about 50% of B cells and most monocytes.

Applications Reported

This eBioY1/82A (Y1/82A) antibody has been reported for use in flow cytometric analysis.

Applications Tested

This eBioY1/82A (Y1/82A) antibody has been pre-titrated and tested by intracellular staining and flow cytometric analysis of normal human peripheral blood cells. This can be used at 5 μ L (0.125 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.

References

Davey F.R., J. Cordell, W.N. Erber, K.A.F Pulford, K.C. Gatter, D.Y. Mason. 1988. Monoclonal antibody (Y1/82A) with specificty towards peripheral blood monocytes and tissue macrophages. J. Clin. Pathol 41:753-758.

Strobl H, Scheinecker C, Csmarits B, Majdic O, Knapp W. Flow cytometric analysis of intracellular CD68 molecule

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expression in normal and malignant haemopoiesis. Br J Haematol. 1995 Aug;90(4):774-82.

Related Products

11-4732 Mouse IgG2b K Isotype Control FITC

88-8824 Intracellular Fixation & Permeabilization Buffer Set