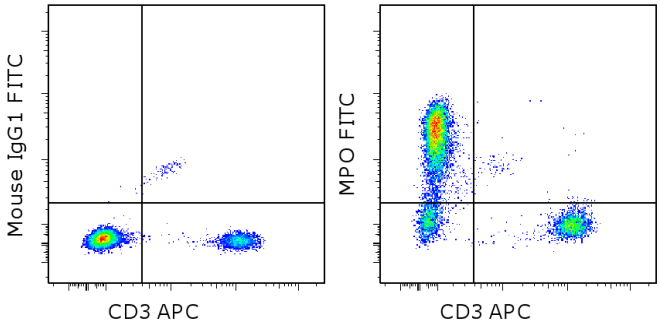
Anti-Human Myeloperoxidase (MPO) FITC

Catalog Number: 11-1299
RUO: For Research Use Only. Not for use in diagnostic procedures.



Staining of Intracellular staining of prelysed human whole blood with Anti-Human CD3 APC (cat. 17-0036) and Mouse IgG1 K Isotype Control FITC (cat. 11-4714) (left) or Anti-Human Myeloperoxidase (MPO) FITC (right). Total cells were used for analysis.

Product Information

Contents: Anti-Human Myeloperoxidase (MPO) FITC
REF **Catalog Number:** 11-1299
Clone: MPO455-8E6
Concentration: 5 uL (0.125 ug)/test
Host/Isotype: Mouse IgG1

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

Description

The monoclonal antibody MPO455-8E6 recognizes myeloperoxidase (MPO), a protein within the azurophilic granules of myeloid cells. MPO is a multimeric protein comprised of two 55 kDa subunits and two 15 kDa subunits. The larger subunits associate with a heme protein resulting in a greenish color. As an enzyme, MPO breaks down hydrogen peroxide and oxidizes tyrosine. The products of this reaction, hypochlorous acid and tyrosyl radical, cause the cytotoxic and killing effects characteristic of neutrophils. Myeloperoxidase is important in the diagnosis of some cancers and increases in serum levels have been shown to correlate with cardiac events.

Applications Reported

This MPO455-8E6 antibody has been reported for use in intracellular staining followed by flow cytometric analysis.

Applications Tested

This MPO455-8E6 antibody has been pre-titrated and tested by intracellular staining of lysed normal hyman peripheral blood leukocytes. This can be used at 5 µL (0.125 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.

For best results, whole blood should first be stained with antibodies to surface antigens then treated with 1X RBC lysis buffer (cat. 00-4333) to lyse erythrocytes. For intracellular staining for MPO, cells should be fixed with IC Fixation Buffer (cat. 00-8222) washed two times with Permeabilization Buffer (cat. 00-8333) and then incubated with MPO455-8E6 for 30-60 minutes. After washing, cells may be analyzed on a flow cytometer.

References

Knapp W, Strobl H, Majdic O. Flow cytometric analysis of cell-surface and intracellular antigens in leukemia diagnosis. Cytometry. 1994 Dec 15;18(4):187-98.

Koeffler HP, Ranyard J, Pertcheck M. Myeloperoxidase: its structure and expression during myeloid differentiation. Blood. 1985 Feb;65(2):484-91.

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Related Products
11-0036 Anti-Human CD3 FITC (SK7)
11-4714 Mouse IgG1 K Isotype Control FITC (P3.6.2.8.1)
88-8823 Fixation & Permeabilization Buffers

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