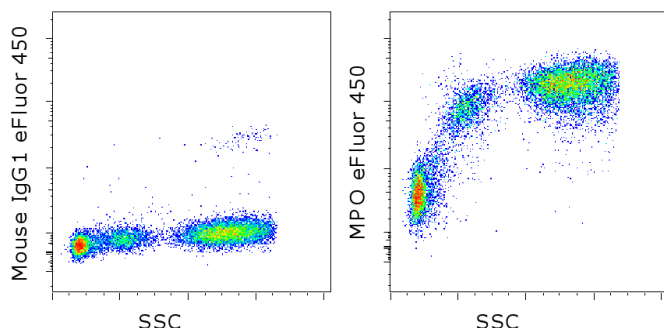


Anti-Human Myeloperoxidase (MPO) eFluor® 450

Catalog Number: 48-1299

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



Staining of normal human peripheral blood cells with Mouse IgG1 K Isotype Control eFluor® 450 (cat. 48-4714) (left) or Anti-Human Myeloperoxidase (MPO) eFluor® 450 (right). Total cells were used for analysis.

Product Information



Contents: Anti-Human Myeloperoxidase (MPO) eFluor® 450

Catalog Number: 48-1299

Clone: MPO455-8E6

Concentration: 5 µL (0.25 µg)/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.

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 flow cytometric analysis.

Applications Tested

This MPO455-8E6 antibody has been pre-titrated and tested by intracellular staining and flow cytometric analysis. It is recommended to minimize the exposure time in Permeabilization Buffer. After staining, wash in Flow Staining Buffer for analysis. This can be used at 5 µL (0.25 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 10⁵ to 10⁸ cells/test.

eFluor® 450 is a replacement for Pacific Blue®. eFluor® 450 emits at 456 nm and is excited with the Violet laser (405 nm). Please make sure that your instrument is capable of detecting this fluorochochrome.

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.

Related Products

Not for further distribution without written consent.

Copyright © 2000-2012 eBioscience, Inc.

Tel: 888.999.1371 or 858.642.2058 • Fax: 858.642.2046 • www.ebioscience.com • info@ebioscience.com

Anti-Human Myeloperoxidase (MPO) eFluor® 450

Catalog Number: 48-1299

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

00-4222 Flow Cytometry Staining Buffer

17-0036 Anti-Human CD3 APC (SK7)

88-8823 Fixation & Permeabilization Buffers

Not for further distribution without written consent.

Copyright © 2000-2012 eBioscience, Inc.

Tel: 888.999.1371 or 858.642.2058 • Fax: 858.642.2046 • www.ebioscience.com •
info@ebioscience.com