

Myeloperoxidase (MPO) Monoclonal Antibody (MPO455-8E6), FITC, eBioscience™

Product Details	
Size	100 Tests
Species Reactivity	Human
Published Species	Human
Host/Isotype	Mouse / IgG1
Recommended Isotype Control	Mouse IgG1 kappa Isotype Control (P3.6.2.8.1), FITC, eBioscience™
Class	Monoclonal
Type	Antibody
Clone	MPO455-8E6
Conjugate	FITC
Excitation/Emission Max	498/517 nm
Form	Liquid
Concentration	5 µL/Test
Purification	Affinity chromatography
Storage buffer	PBS, pH 7.2, with 0.2% BSA
Contains	0.09% sodium azide
Storage conditions	4° C, store in dark, DO NOT FREEZE!
RRID	AB_10596801

Applications	Tested Dilution	Publications
Immunocytochemistry (ICC/IF)	-	1 Publication
Flow Cytometry (Flow)	5 µL (0.5 µg)/test	3 Publications

Product Specific Information

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.

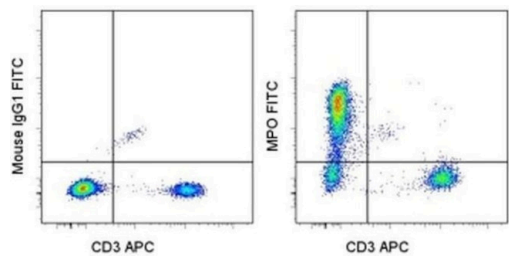
Applications Tested: This MPO455-8E6 antibody has been pre-titrated and tested by intracellular staining and flow cytometric analysis of normal human peripheral blood cells using the Intracellular Fixation & Permeabilization Buffer Set (cat. 88-8824). For best results, whole blood should first be stained with antibodies to surface antigens then treated with 1X RBC lysis buffer (cat. 00-4333) to lyse erythrocytes. Then, 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. This can be used at 5 µL (0.5 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.

Excitation: 488 nm; Emission: 520 nm; Laser: Blue Laser.

Filtration: 0.2 µm post-manufacturing filtered.

Product Images For Myeloperoxidase (MPO) Monoclonal Antibody (MPO455-8E6), FITC, eBioscience™



Myeloperoxidase (MPO) Antibody (11-1299-42) in Flow
Intracellular staining of normal human peripheral blood cells with Anti-Human CD3 APC (Product # 17-0036-42) and Mouse IgG1 K Isotype Control FITC (Product # 11-4714-42) (left) or Anti-Human Myeloperoxidase (MPO) FITC (right) using the Intracellular Fixation & Permeabilization Buffer Set (Product # 88-8824-00). Total cells were used for analysis.

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4 References

Immunocytochemistry (1)

<p>Nature communications</p> <p>The role of platelets in mediating a response to human influenza infection.</p> <p>"Published figure using Myeloperoxidase (MPO) monoclonal antibody (Product # 11-1299-42) in Immunocytochemistry"</p> <p>Authors: Koupenova M,Corkrey HA,Vitseva O,Manni G,Pang CJ,Clancy L,Yao C,Rade J,Levy D,Wang JP,Finberg RW, Kurt-Jones EA,Freedman JE</p>	<p>Year</p> <p>2019</p> <p>Species</p> <p>Human</p>
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Flow Cytometry (3)

<p>STAR protocols</p> <p>Generation of Human Neutrophils from Induced Pluripotent Stem Cells in Chemically Defined Conditions Using <i>ETV2</i> Modified mRNA.</p> <p>"Published figure using Myeloperoxidase (MPO) monoclonal antibody (Product # 11-1299-42) in Flow Cytometry"</p> <p>Authors: Majumder A,Suknuntha K,Bennin D,Klamm L,Brok-Volchanskaya VS,Huttenlocher A,Slukvin I</p>	<p>Year</p> <p>2020</p>
<p>Nature communications</p> <p>Loss of testosterone impairs anti-tumor neutrophil function.</p> <p>"Published figure using Myeloperoxidase (MPO) monoclonal antibody (Product # 11-1299-42) in Flow Cytometry"</p> <p>Authors: Markman JL,Porritt RA,Wakita D,Lane ME,Martinon D,Noval Rivas M,Luu M,Posadas EM,Crother TR,Arditi M</p>	<p>Year</p> <p>2020</p>

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