

Datasheet for ABIN2749160
anti-Myeloperoxidase antibody (PE)



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2 Images

Overview

Quantity:	100 tests
Target:	Myeloperoxidase (MPO)
Reactivity:	Human
Host:	Mouse
Clonality:	Monoclonal
Conjugate:	This Myeloperoxidase antibody is conjugated to PE
Application:	Flow Cytometry (FACS)

Product Details

Immunogen:	Human myeloperoxidase
Clone:	MPO421-8B2
Isotype:	IgG1
Specificity:	The mouse monoclonal antibody MPO421-8B2 recognizes human myeloperoxidase, a heme protein present in intracellular granules of myeloblasts, neutrophils and monocytes. It is a marker of acute myelogenous leukemias and acute lymphoblastic leukemias.
Cross-Reactivity (Details):	Human
Purification:	Purified antibody is conjugated with R-phycoerythrin (PE) under optimum conditions. Unconjugated antibody and free fluorochrome are removed by size-exclusion chromatography.

Target Details

Target:	Myeloperoxidase (MPO)
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Target Details

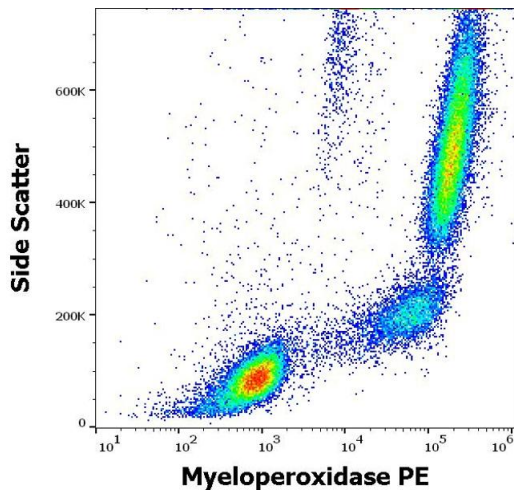
Abstract:	MPO Products
Background:	<p>Myeloperoxidase, Myeloperoxidase (MPO) is a heme enzyme that is localized in azurophilic (primary) granules of myeloid cells and its synthesis occurs at an early stage of differentiation. The mature myeloperoxidase is a tetramer composed of two light (12 kDa) and two heavy (60 kDa) chains. This enzyme uses hydrogen peroxide to oxidize numerous substrates, including serotonin, melatonin or chloride, to produce reactive free radicals that contribute to immune reactions of myeloid cells against pathogens. Myeloperoxidase functions not only in host defense by mediating efficient microbial killing but also can contribute to progressive tissue damage in chronic inflammatory states such as atherosclerosis or acute pancreatitis. MPO</p>
Gene ID:	4353
UniProt:	P05164
Pathways:	Chromatin Binding

Application Details

Application Notes:	<p>Flow cytometry: The reagent is designed for analysis of human blood cells using 10 μL reagent / 100 μL of whole blood or 10^6 cells in a suspension. The content of a vial (1 ml) is sufficient for 100 tests. Intracellular staining.</p>
Comment:	<p>The purified antibody is conjugated with R-Phycoerythrin (PE) under optimum conditions. The conjugate is purified by size-exclusion chromatography and adjusted for direct use. No reconstitution is necessary.</p>
Restrictions:	For Research Use only

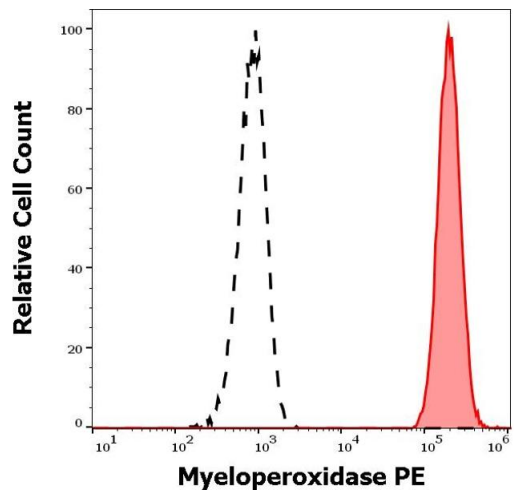
Handling

Buffer:	Stabilizing phosphate buffered saline (PBS), pH 7.4, 15 mM sodium azide
Preservative:	Sodium azide
Precaution of Use:	This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.
Storage:	4 °C
Storage Comment:	Store at 2-8°C. Protect from prolonged exposure to light. Do not freeze.



Flow Cytometry

Image 1. Flow cytometry intracellular staining pattern of human peripheral whole blood stained using anti-human Myeloperoxidase (MPO421-8B2) PE antibody (10 μ L reagent / 100 μ L of peripheral whole blood).



Flow Cytometry

Image 2. Separation of human neutrophil granulocytes (red-filled) from lymphocytes (black-dashed) in flow cytometry analysis (intracellular staining) of human peripheral whole blood stained using anti-human Myeloperoxidase (MPO421-8B2) PE antibody (10 μ L reagent / 100 μ L of peripheral whole blood).