Datasheet for ABIN2749159

# anti-Myeloperoxidase antibody (FITC)

2 Images

Go to Product page

## Overview

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

## Product Details

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|---|---|
| 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 fluorescein isothiocyanate (FITC) under optimum conditions and unconjugated antibody and free fluorochrome are removed by size-exclusion chromatography. |

## Target Details

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|---|---|
| Target: | Myeloperoxidase (MPO) |
| Abstract: | MPO Products |
| Background: | 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 |
| Gene ID: | 4353 |
| UniProt: | P05164 |
| Pathways: | Chromatin Binding |

## Application Details

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|---|---|
| Application Notes: | Flow cytometry: The reagent is designed for analysis of human blood cells using 4 µL reagent / 100 µL of whole blood or $10^6$ cells in a suspension. The content of a vial (0.4 ml) is sufficient for 100 tests. Intracellular staining. |
| Comment: | The purified antibody is conjugated with Fluorescein isothiocyanate (FITC) under optimum conditions. The reagent is free of unconjugated FITC and adjusted for direct use. No reconstitution is necessary. |
| Restrictions: | For Research Use only |

## Handling

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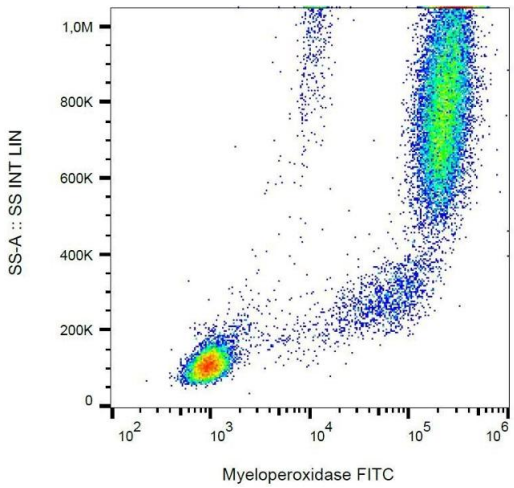
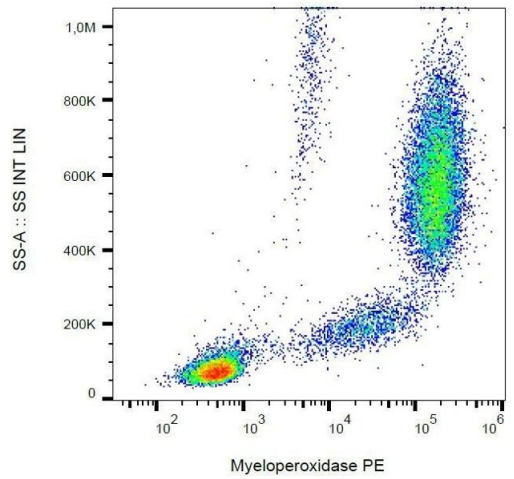
| Buffer: | Stabilizing phosphate buffered saline (PBS), pH 7.4, 15 mM sodium azide |
| Preservative: | Sodium azide |
| Precaution of Use: | This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only. |
| Storage: | 4 °C |
| Storage Comment: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




**Flow Cytometry**

**Image 1.** Intracellular staining of human peripheral blood with anti-myeloperoxidase (MPO421-8B2) FITC.




**Flow Cytometry**

**Image 2.** Intracellular staining of human peripheral blood with anti-myeloperoxidase (MPO421-8B2) FITC.