

Datasheet for ABIN1981877

anti-Myeloperoxidase antibody**2** Images[Go to Product page](#)

Overview

Quantity:	0.1 mg
Target:	Myeloperoxidase (MPO)
Reactivity:	Human
Host:	Mouse
Clonality:	Monoclonal
Conjugate:	This Myeloperoxidase antibody is un-conjugated
Application:	ELISA, 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 by protein-A affinity chromatography.
Purity:	> 95 % (by SDS-PAGE)

Target Details

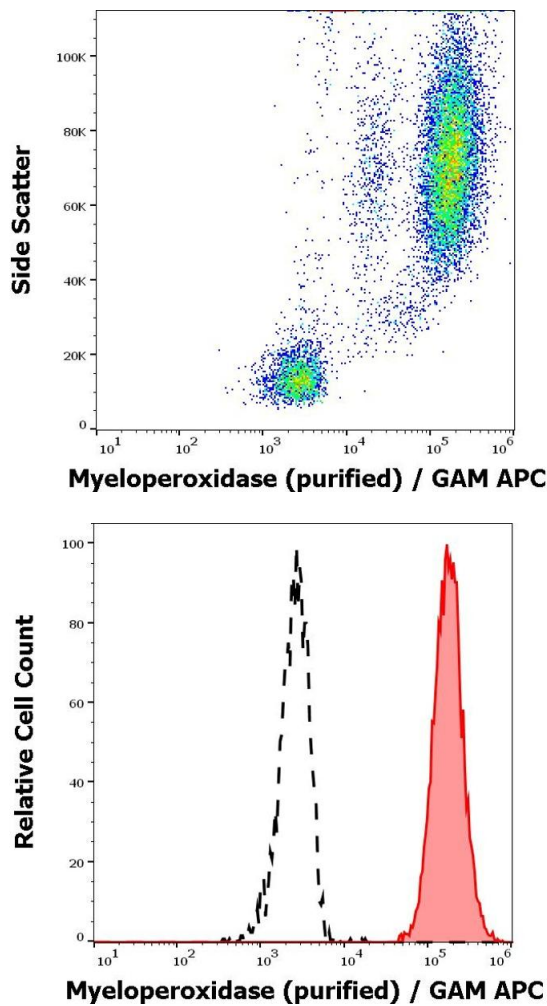
Target:	Myeloperoxidase (MPO)
Abstract:	MPO Products
Background:	<p>Myeloperoxidase, Myeloperoxidase (MPO) is a heme enzyme that is localized in azurophilic (primary) granules of myeloid cells and its synthesis occurs at an early stage of differentiation. The mature myeloperoxidase is a tetramer composed 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:	Flow cytometry: Recommended dilution: 1-4 µg/mL. Intracellular staining.
Restrictions:	For Research Use only

Handling

Concentration:	1 mg/mL
Buffer:	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.
Handling Advice:	Do not freeze. Do not use after expiration date stamped on vial label.
Storage:	4 °C
Storage Comment:	Store at 2-8°C. Do not freeze.



Flow Cytometry

Image 1. Flow cytometry intracellular staining pattern of human peripheral whole blood stained using anti-human Myeloperoxidase (MPO421-8B2) purified antibody (concentration in sample 1 $\mu\text{g}/\text{mL}$) GAM APC.

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) purified antibody (concentration in sample 1 $\mu\text{g}/\text{mL}$) GAM APC.