

ARG54285 anti-MPO / Myeloperoxidase antibody [MPO421-8B2] (PE)

Package: 50 tests

Store at: 4°C

Summary

Product Description	PE-conjugated Mouse Monoclonal antibody [MPO421-8B2] recognizes MPO / Myeloperoxidase
Tested Reactivity	Hu
Tested Application	FACS
Specificity	The mouse monoclonal antibody MPO4218B2 recognizes human myeloperoxidase, a heme protein present in myeloblasts, neutrophils and monocytes. It is a marker of acute myelogenous leukemias and acute lymphoblastic leukemias.
Host	Mouse
Clonality	Monoclonal
Clone	MPO421-8B2
Isotype	IgG1
Target Name	MPO / Myeloperoxidase
Species	Human
Immunogen	Human myeloperoxidase
Conjugation	PE
Alternate Names	MPO; Myeloperoxidase; EC 1.11.2.2

Application Instructions

Application table	Application	Dilution
	FACS	10 µl / 100 µl of whole blood or 10 ⁶ cells

Application Note * The dilutions indicate recommended starting dilutions and the optimal dilutions or concentrations should be determined by the scientist.

Properties

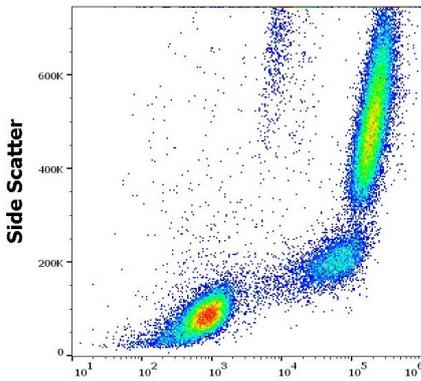
Form	Liquid
Purification Note	The purified antibody is conjugated with R-Phycoerythrin (PE) under optimum conditions. The conjugate is purified by size-exclusion chromatography and adjusted for direct use. No reconstitution is necessary.
Buffer	PBS, 15 mM Sodium azide and 0.2% (w/v) high-grade protease free BSA
Preservative	15 mM Sodium azide
Stabilizer	0.2% (w/v) high-grade protease free BSA
Storage instruction	Aliquot and store in the dark at 2-8°C. Keep protected from prolonged exposure to light. Avoid repeated freeze/thaw cycles. Suggest spin the vial prior to opening. The antibody solution should be gently mixed before use.

Note For laboratory research only, not for drug, diagnostic or other use.

Bioinformation

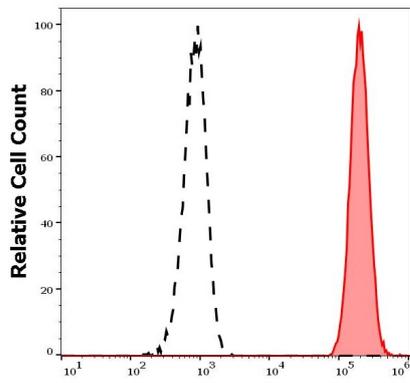
Database links	GeneID: 4353 Human Swiss-port # P05164 Human
Gene Symbol	MPO
Gene Full Name	myeloperoxidase
Background	Myeloperoxidase (MPO) is a heme protein synthesized during myeloid differentiation that constitutes the major component of neutrophil azurophilic granules. Produced as a single chain precursor, myeloperoxidase is subsequently cleaved into a light and heavy chain. The mature myeloperoxidase is a tetramer composed of 2 light chains and 2 heavy chains. This enzyme produces hypohalous acids central to the microbicidal activity of neutrophils. [provided by RefSeq, Nov 2014]
Function	Myeloperoxidase (MPO): Part of the host defense system of polymorphonuclear leukocytes. It is responsible for microbicidal activity against a wide range of organisms. In the stimulated PMN, MPO catalyzes the production of hypohalous acids, primarily hypochlorous acid in physiologic situations, and other toxic intermediates that greatly enhance PMN microbicidal activity. [UniProt]
Highlight	Related products: MPO antibodies ; MPO ELISA Kits ; MPO Duos / Panels ; Anti-Mouse IgG secondary antibodies ; Related news: Exploring Antiviral Immune Response
Research Area	Inflammatory Cell Marker antibody; Neutrophil Marker antibody
Calculated Mw	84 kDa

Images



ARG54285 anti-MPO / Myeloperoxidase antibody [MPO421-8B2] (PE) FACS image

Flow Cytometry: Human peripheral whole blood stained with ARG54285 anti-MPO / Myeloperoxidase antibody [MPO421-8B2] (PE) (10 μ l reagent / 100 μ l of peripheral whole blood).



ARG54285 anti-MPO / Myeloperoxidase antibody [MPO421-8B2]
(PE) FACS image

Flow Cytometry: Separation of human neutrophil granulocytes (red-filled) from lymphocytes (black-dashed). Human peripheral whole blood stained with ARG54285 anti-MPO / Myeloperoxidase antibody [MPO421-8B2] (PE) (10 µl reagent / 100 µl of peripheral whole blood).