ARG65513
anti-MPO / Myeloperoxidase antibody [MPO421-8B2] (FITC)

Package: 50 tests
Store at: 4°C

Summary

Product Description	FITC-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	FITC
Alternate Names	MPO; Myeloperoxidase; EC 1.11.2.2

Application Instructions

Application table

Application	Dilution
FACS	4 µl / 10^6 cells

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

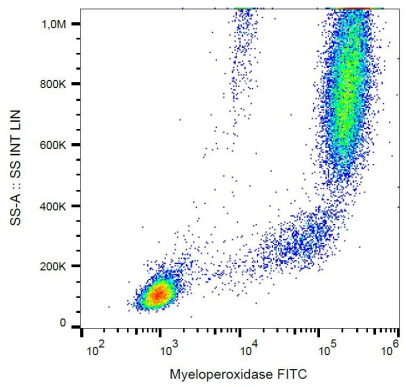
Properties

Form	Liquid
Purification Note	The purified antibody is conjugated with Fluorescein isothiocyanate (FITC) under optimum conditions. The reagent is free of unconjugated FITC 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; Neurophil Marker antibody
Calculated Mw	84 kDa

Images



ARG65513 anti-MPO / Myeloperoxidase antibody [MPO421-8B2] (FITC) FACS image

Flow Cytometry: Human peripheral blood stained with ARG65513 anti-MPO / Myeloperoxidase antibody [MPO421-8B2] (FITC).