

## ARG65512 anti-MPO / Myeloperoxidase antibody [MPO421-8B2]

Package: 50 µg  
Store at: -20°C

### Summary

Product Description	Mouse Monoclonal antibody [MPO421-8B2] recognizes MPO / Myeloperoxidase
Tested Reactivity	Hu
Tested Application	ELISA, 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	Un-conjugated
Alternate Names	MPO; Myeloperoxidase; EC 1.11.2.2

### Application Instructions

Application table	Application	Dilution
	ELISA	Assay-dependent
	FACS	1 - 4 µg/ml
Application Note	FACS: Intracellular staining. * The dilutions indicate recommended starting dilutions and the optimal dilutions or concentrations should be determined by the scientist.	

### Properties

Form	Liquid
Purification	Purified from cell culture supernatant by protein-A affinity chromatography.
Purity	> 95% (by SDS-PAGE)
Buffer	PBS (pH 7.4) and 15 mM Sodium azide
Preservative	15 mM Sodium azide
Concentration	1 mg/ml
Storage instruction	For continuous use, store undiluted antibody at 2-8°C for up to a week. For long-term storage, aliquot and store at -20°C or below. Storage in frost free freezers is not recommended. Avoid repeated

freeze/thaw cycles. Suggest spin the vial prior to opening. The antibody solution should be gently mixed before use.

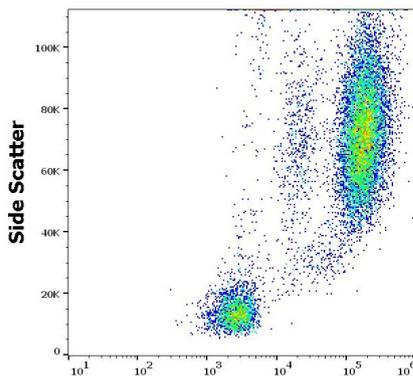
Note For laboratory research only, not for drug, diagnostic or other use.

## Bioinformation

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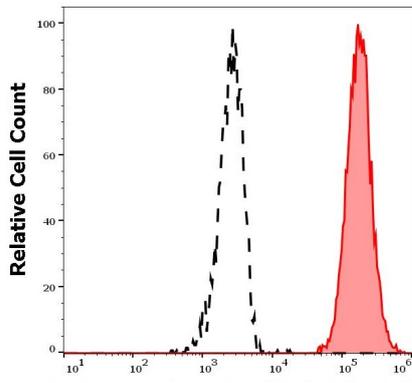
Database links	<a href="#">GeneID: 4353 Human</a> <a href="#">Swiss-port # P05164 Human</a>
Gene Symbol	MPO
Gene Full Name	myeloperoxidase
Background	Myeloperoxidase (MPO) is a heme protein synthesized during myeloid differentiation that constitutes the major component of neutrophil azurophilic granules. 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: <a href="#">MPO antibodies</a> ; <a href="#">MPO ELISA Kits</a> ; <a href="#">MPO Duos / Panels</a> ; <a href="#">Anti-Mouse IgG secondary antibodies</a> ; Related news: <a href="#">Exploring Antiviral Immune Response</a>
Research Area	Inflammatory Cell Marker antibody; Neutrophil Marker antibody
Calculated Mw	84 kDa

## Images



ARG65512 anti-MPO / Myeloperoxidase antibody [MPO421-8B2]  
FACS image

Flow Cytometry: Human peripheral whole blood stained with ARG65512 anti-MPO / Myeloperoxidase antibody [MPO421-8B2] at 1 µg/ml dilution, followed by APC-conjugated Goat anti-Mouse antibody.



ARG65512 anti-MPO / Myeloperoxidase antibody [MPO421-8B2]  
FACS image

Flow Cytometry: Separation of human neutrophil granulocytes (red-filled) from lymphocytes (black-dashed). Human peripheral whole blood stained with ARG65512 anti-MPO / Myeloperoxidase antibody [MPO421-8B2] at 1 µg/ml dilution, followed by APC-conjugated Goat anti-Mouse antibody.