

ARG43747 anti-MPO / Myeloperoxidase antibody

Package: 50 µg
Store at: -20°C

Summary

Product Description	Rabbit Polyclonal antibody recognizes MPO / Myeloperoxidase
Tested Reactivity	Hu
Tested Application	FACS, WB
Host	Rabbit
Clonality	Polyclonal
Isotype	IgG
Target Name	MPO / Myeloperoxidase
Species	Human
Immunogen	Recombinant protein corresponding to S406-S745 of Human Myeloperoxidase / MPO.
Conjugation	Un-conjugated
Alternate Names	MPO; Myeloperoxidase; EC 1.11.2.2

Application Instructions

Application table	Application	Dilution
	FACS	1 - 3 µg/1X10 ⁶ cells
	WB	1:500 - 1:2500
Application Note	* The dilutions indicate recommended starting dilutions and the optimal dilutions or concentrations should be determined by the scientist.	
Positive Control	HL-60	
Observed Size	60 kDa	

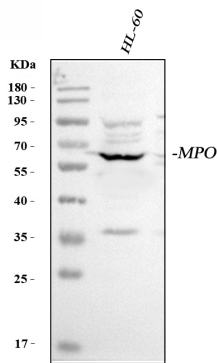
Properties

Form	Liquid
Purification	Affinity purification with immunogen.
Buffer	0.2% Na ₂ HPO ₄ , 0.9% NaCl and 4% Trehalose.
Stabilizer	4% Trehalose
Concentration	0.5 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. 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.

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 Antibody Duos and Panels: ARG30325 Inflammatory Cell Antibody Panel Related products: MPO antibodies ; MPO ELISA Kits ; MPO Duos / Panels ; Anti-Rabbit IgG secondary antibodies ; Related news: Exploring Antiviral Immune Response
Research Area	Inflammatory Cell Marker antibody; Neutrophil Marker antibody
Calculated Mw	60 kDa, 84 kDa, 89 kDa
Cellular Localization	Lysosome. [UniProt]

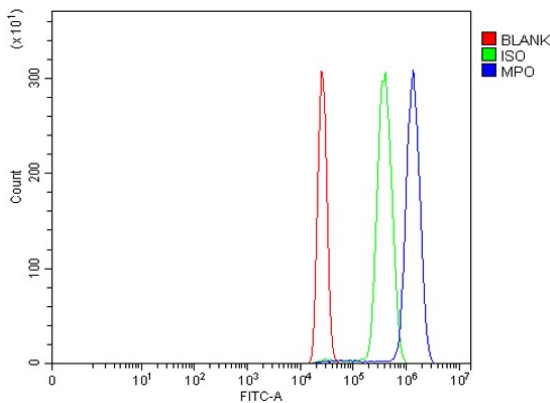
Images

ARG43747 anti-MPO / Myeloperoxidase antibody WB image



Western blot: 30 µg of HL-60 lysate under reducing conditions stained with ARG43747 anti-MPO / Myeloperoxidase antibody at 0.5 µg/ml, overnight at 4°C.

ARG43747 anti-MPO / Myeloperoxidase antibody FACS image



Flow Cytometry: Human HL-60 cells were blocked with 10% normal goat serum and then stained with ARG43747 anti-MPO / Myeloperoxidase antibody (blue) at 1 µg/10⁶ cells for 30 min at 20°C, followed by incubation with DyLight[®]488 labelled secondary antibody. Isotype control antibody (green) was rabbit IgG (1 µg/10⁶ cells) used under the same conditions. Unlabelled sample (red) was also used as a control.