



# Myeloperoxidase(MPO) (ABT-MPO) mouse mAb

<b>Catalog No</b>	YP-Ab-15430
<b>Isotype</b>	IgG
<b>Reactivity</b>	Human; Predict react with Mouse, Rat
<b>Applications</b>	IHC;WB;IF
<b>Gene Name</b>	MPO
<b>Protein Name</b>	Myeloperoxidase(MPO)
<b>Immunogen</b>	Synthesized peptide derived from human Myeloperoxidase(MPO)
<b>Specificity</b>	This antibody detects endogenous levels of human Myeloperoxidase(MPO). Heat-induced epitope retrieval (HIER) Citrate buffer of pH6.0 was highly recommended as antigen repair method in paraffin section
<b>Formulation</b>	Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% sodium azide.
<b>Source</b>	Mouse, Monoclonal/IgG2a, Kappa
<b>Purification</b>	The antibody was affinity-purified from mouse ascites by affinity-chromatography using specific immunogen.
<b>Dilution</b>	IHC-p 1:100-500, WB 1:200-1000. IF 1:50-200
<b>Concentration</b>	1 mg/ml
<b>Purity</b>	≥90%
<b>Storage Stability</b>	-20°C/1 year
<b>Synonyms</b>	
<b>Observed Band</b>	
<b>Cell Pathway</b>	Lysosome.
<b>Tissue Specificity</b>	Leukemia,Leukocyte,Liver,Plasma,Saliva,
<b>Function</b>	catalytic activity:Cl(-) + H(2)O(2) = HOCl + 2 H(2)O.,catalytic activity:Donor + H(2)O(2) = oxidized donor + 2 H(2)O.,cofactor: Binds 1 calcium ion per heterodimer.,cofactor: Binds 1 heme B (iron-protoporphyrin IX) group covalently per heterodimer.,disease: Defects in MPO are the cause of myeloperoxidase deficiency (MPD) [MIM:254600]. MPD is an autosomal recessive defect that results in disseminated candidiasis.,function: 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 hypochlorous acids, primarily hypochlorous acid in physiologic situations, and other toxic intermediates that greatly enhance PMN microbicidal activity.,online information: MPO mutation db,online information: Myeloperoxidase entry,similarity: Belongs to the peroxidase family. XPO sub
<b>Background</b>	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],

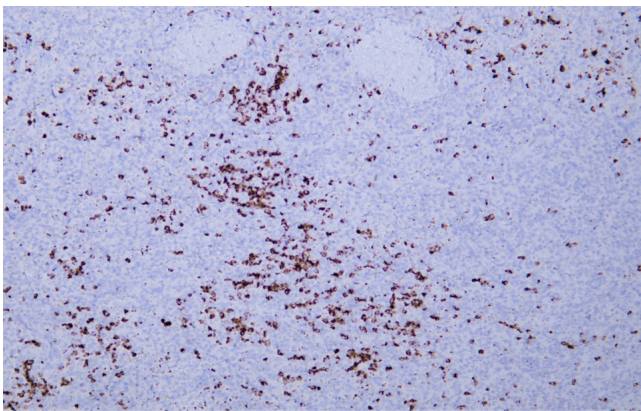
**matters needing attention**

Avoid repeated freezing and thawing!

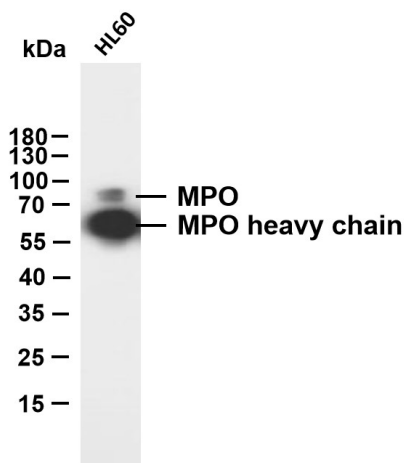
**Usage suggestions**

This product can be used in immunological reaction related experiments. For more information, please consult technical personnel.

## Products Images



Human spleen tissue was stained with Anti-Myeloperoxidase (ABT-MPO) Antibody



HL60 whole cell lysates were separated by 12% SDS-PAGE, and the membrane was blotted with anti-MPO(ABT-MPO)antibody. The HRP-conjugated Goat anti-Mouse IgG(H + L) antibody was used to detect the antibody. Lane 1: HL60 Predicted band size: 84kDa Observed band size: 84, 60kDa