



# Myeloperoxidase(MPO) (PTR2562) Mouse mAb

<b>Catalog No</b>	YP-Ab-18826
<b>Isotype</b>	IgG
<b>Reactivity</b>	Human,Mouse,Rat
<b>Applications</b>	IHC;WB;IF;ELISA
<b>Gene Name</b>	MPO
<b>Protein Name</b>	Myeloperoxidase
<b>Immunogen</b>	Synthesized peptide derived from human Myeloperoxidase(MPO) AA range: 350-450
<b>Specificity</b>	This antibody detects endogenous levels of MPO protein.
<b>Formulation</b>	PBS, 50% glycerol, 0.05% Proclin 300, 0.05%BSA
<b>Source</b>	Polyclonal, Rabbit,IgG
<b>Purification</b>	This antibody detects endogenous levels of MPO protein.
<b>Dilution</b>	IHC 1:200-1000; WB 1:500-2000; IF 1:100-500; ELISA 1:1000-5000
<b>Concentration</b>	1 mg/ml
<b>Purity</b>	≥90%
<b>Storage Stability</b>	-20°C/1 year
<b>Synonyms</b>	84 kDa myeloperoxidase antibody ; 89 kDa myeloperoxidase antibody ; EC1.11.2.2 antibody ; fj80f04 antibody ; MPO antibody ; mpx antibody ; myeloid-specific peroxidase antibody ; Myeloperoxidase antibody ; Myeloperoxidase heavy chain antibody ; Myeloperoxidase light chain antibody ; PERM_HUMAN antibody ; wu:fj80f04 antibody
<b>Observed Band</b>	70kD
<b>Calculated Molecular Weight</b>	84kD
<b>Cell Pathway</b>	Cytoplasmic
<b>Tissue Specificity</b>	Leukemia,Leukocyte,Liver,Plasma,Saliva
<b>Function</b>	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 (PubMed:9922160). Mediates the proteolytic cleavage of alpha-1-microglobulin to form t-alpha-1-microglobulin, which potently inhibits oxidation of low-density lipoprotein particles and limits vascular damage



## 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]

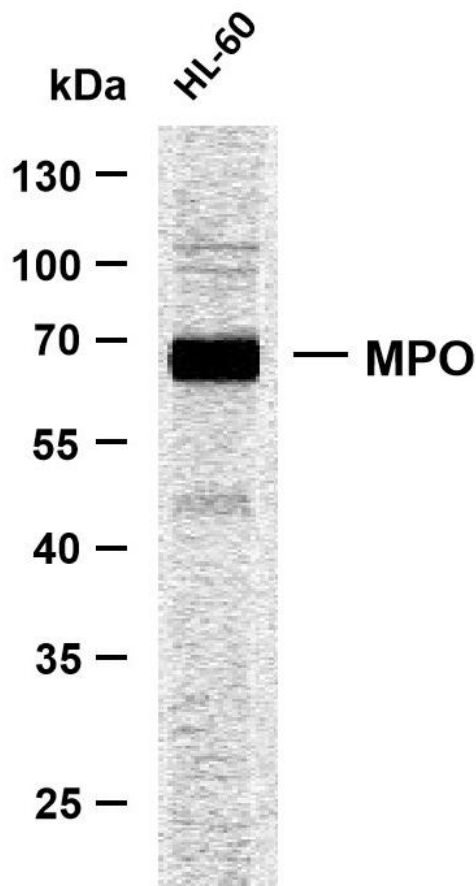
## matters needing attention

Avoid repeated freezing and thawing!

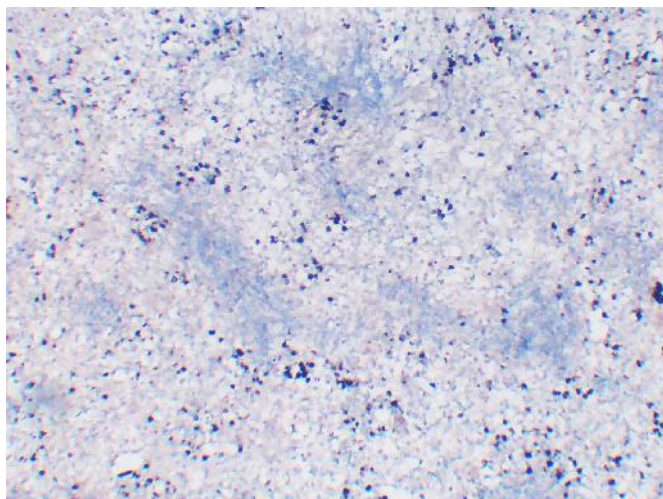
## Usage suggestions

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

## Products Images



Various whole cell lysates were separated by 10% SDS-PAGE, and the membrane was blotted with anti-MPO (PTR2562) antibody. The HRP-conjugated Goat anti-Mouse IgG(H + L) antibody was used to detect the antibody. Lane 1: HL-60 Lane 2: MDA-MB-231



Mouse spleen tissue was stained with  
anti-Myeloperoxidase (PTR2562) Antibody

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