

**Myeloperoxidase Antibody (N-term)**  
**Affinity Purified Rabbit Polyclonal Antibody (Pab)**  
**Catalog # AP11560A**

### Specification

#### Myeloperoxidase Antibody (N-term) - Product Information

Application	WB, FC,E
Primary Accession	<a href="#">P05164</a>
Other Accession	<a href="#">NP_000241.1</a>
Reactivity	Human
Host	Rabbit
Clonality	Polyclonal
Isotype	Rabbit IgG
Calculated MW	83869
Antigen Region	60-89

#### Myeloperoxidase Antibody (N-term) - Additional Information

##### Gene ID 4353

##### Other Names

Myeloperoxidase, MPO, Myeloperoxidase, 89 kDa myeloperoxidase, 84 kDa myeloperoxidase, Myeloperoxidase light chain, Myeloperoxidase heavy chain, MPO

##### Target/Specificity

This Myeloperoxidase antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 60-89 amino acids from the N-terminal region of human Myeloperoxidase.

##### Dilution

WB~~1:1000

FC~~1:10~50

E~~Use at an assay dependent concentration.

##### Format

Purified polyclonal antibody supplied in PBS with 0.09% (W/V) sodium azide. This antibody is purified through a protein A column, followed by peptide affinity purification.

##### Storage

Maintain refrigerated at 2-8°C for up to 2 weeks. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.

##### Precautions

Myeloperoxidase Antibody (N-term) is for research use only and not for use in diagnostic or therapeutic procedures.

#### Myeloperoxidase Antibody (N-term) - Protein Information

Name MPO ([HGNC:7218](#))

**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 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 (PubMed:[25698971](#)).

**Cellular Location**

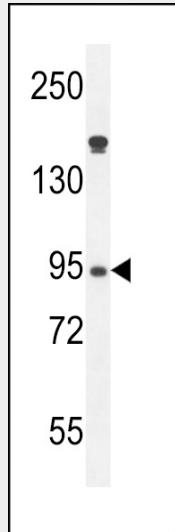
Lysosome.

**Myeloperoxidase Antibody (N-term) - Protocols**

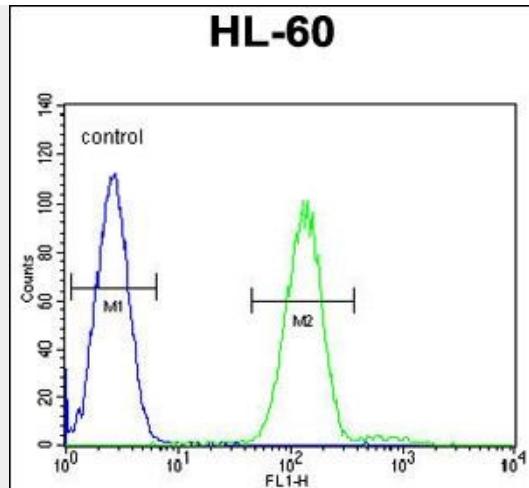
Provided below are standard protocols that you may find useful for product applications.

- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

**Myeloperoxidase Antibody (N-term) - Images**



Myeloperoxidase Antibody (N-term) (Cat. #AP11560a) western blot analysis in HL-60 cell line lysates (35ug/lane). This demonstrates the Myeloperoxidase antibody detected the Myeloperoxidase protein (arrow).



Myeloperoxidase Antibody (N-term) (Cat. #AP11560a) flow cytometric analysis of HL-60 cells (right histogram) compared to a negative control cell (left histogram). FITC-conjugated goat-anti-rabbit secondary antibodies were used for the analysis.

#### Myeloperoxidase Antibody (N-term) - 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].

#### Myeloperoxidase Antibody (N-term) - References

Banerjee, M., et al. Toxicol. Appl. Pharmacol. 249(1):47-54(2010)  
Shimada, M., et al. Hum. Genet. 128(4):433-441(2010)  
Nahon, P., et al. Antioxid. Redox Signal. (2010) In press :  
Wang, Y., et al. J. Huazhong Univ. Sci. Technol. Med. Sci. 30(4):437-442(2010)  
Hua, F., et al. Zhongguo Fei Ai Za Zhi 13(2):122-127(2010)