

**MPO Antibody (C-term)**  
**Affinity Purified Rabbit Polyclonal Antibody (Pab)**  
**Catalog # AP13056B****Specification**

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**MPO Antibody (C-term) - Product Information**

Application	WB,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	548-575

**MPO Antibody (C-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 MPO antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 548-575 amino acids from the C-terminal region of human MPO.

**Dilution**

WB~~1:1000

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**

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

**MPO Antibody (C-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**

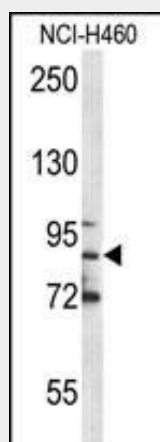
Lysosome.

#### **MPO Antibody (C-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](#)

#### **MPO Antibody (C-term) - Images**



MPO Antibody (C-term) (Cat. #AP13056b) western blot analysis in NCI-H460 cell line lysates (35ug/lane). This demonstrates the MPO antibody detected the MPO protein (arrow).

#### **MPO Antibody (C-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].

**MPO Antibody (C-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)