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MPO Antibody (C-term)

Affinity Purified Rabbit Polyclonal Antibody (Pab)
Catalog # AP13056B

Specification

MPO Antibody (C-term) - Product Information

Application	**WB,E**
Primary Accession	P05164
Other Accession	NP_000241.1
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

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

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).

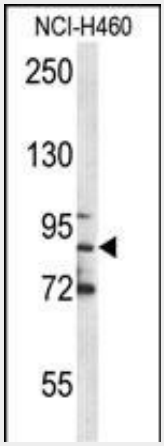
Cellular Location
Lysosome.

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 Cytomety
- 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 netrophils. [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)