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Myeloperoxidase Antibody (Center)

Affinity Purified Rabbit Polyclonal Antibody (Pab)
Catalog # AP14319C

Specification

Myeloperoxidase Antibody (Center) - Product Information

Application	**WB, IHC-P,E**
Primary Accession	P05164
Other Accession	NP_000241.1
Reactivity	**Human**
Host	**Rabbit**
Clonality	**Polyclonal**
Isotype	**Rabbit IgG**
Calculated MW	**83869**
Antigen Region	**420-448**

Myeloperoxidase Antibody (Center) - 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 420-448 amino acids from the Central region of human Myeloperoxidase.

Dilution
WB~~1:1000
IHC-P~~1:10~50

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 (Center) is for research use only and not for use in diagnostic or therapeutic procedures.

Myeloperoxidase Antibody (Center) - 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).

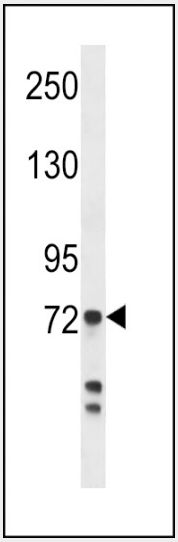
Cellular Location
Lysosome.

Myeloperoxidase Antibody (Center) - 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

Myeloperoxidase Antibody (Center) - Images



Myeloperoxidase Antibody (Center) (Cat. #AP14319c) western blot analysis in MDA-MB231 cell line lysates (35ug/lane).This demonstrates the Myeloperoxidase antibody detected the Myeloperoxidase protein (arrow).

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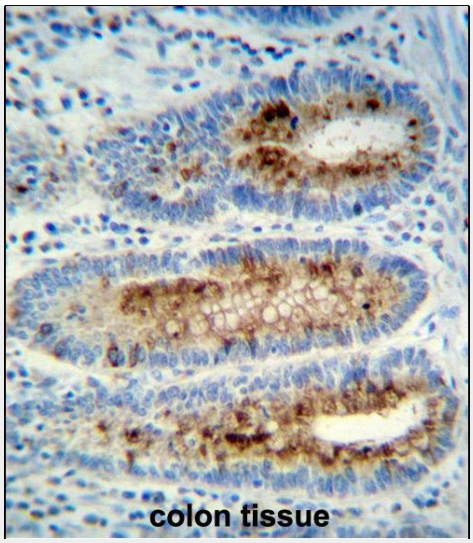

Myeloperoxidase Antibody (Center) (Cat. #AP14319c)immunohistochemistry analysis in formalin fixed and paraffin embedded human colon tissue followed by peroxidase conjugation of the secondary antibody and DAB staining.This data demonstrates the use of Myeloperoxidase Antibody (Center) for immunohistochemistry. Clinical relevance has not been evaluated.

Myeloperoxidase Antibody (Center) - 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].

Myeloperoxidase Antibody (Center) - 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)