

**Myeloperoxidase (MPO) Blocking Peptide**  
**Catalog # PBV10380b****Specification**

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**Myeloperoxidase (MPO) Blocking Peptide - Product Information**

Primary Accession	<a href="#">P05164</a>
Other Accession	<a href="#">EAW94472.1</a>
Gene ID	<b>4353</b>
Calculated MW	<b>83869</b>

**Myeloperoxidase (MPO) Blocking Peptide - Additional Information****Gene ID** 4353**Application & Usage**

The peptide is used for blocking the antibody activity of Myeloperoxidase. It usually blocks the antibody activity completely in Western blot analysis by incubating the peptide with equal volume of antibody for 30-60 minutes at 37°C.

**Other Names**

Myeloperoxidase, MPO, 1.11.2.2, Myeloperoxidase, 89 kDa myeloperoxidase, 84 kDa myeloperoxidase, Myeloperoxidase light chain, Myeloperoxidase heavy chain, MPO

**Target/Specificity**

Myeloperoxidase (MPO)

**Formulation**

50 µg (0.5 mg/ml) Myeloperoxidase (MPO) peptide in phosphate buffered saline (PBS), pH 7.2, containing 50% glycerol, 1% BSA and 0.02% thimerosal.

**Reconstitution & Storage**

-20 °C

**Background Descriptions****Precautions**

Myeloperoxidase (MPO) Blocking Peptide is for research use only and not for use in diagnostic or therapeutic procedures.

**Myeloperoxidase (MPO) Blocking Peptide - 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:<a href="http://www.uniprot.org/citations/9922160" target="\_blank">9922160</a>). 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:<a href="http://www.uniprot.org/citations/25698971" target="\_blank">25698971</a>).

**Cellular Location**

Lysosome.

**Myeloperoxidase (MPO) Blocking Peptide - 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 (MPO) Blocking Peptide - Images**