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# Myeloperoxidase (MPO) Antibody
**Rabbit Polyclonal Antibody**
**Catalog # ABV10645**

## Specification

### Myeloperoxidase (MPO) Antibody - Product Information

| | |
|---|---|
| Application | **WB** |
| Primary Accession | P05164 |
| Other Accession | EAW94472.1 |
| Reactivity | **Human, Mouse** |
| Host | **Rabbit** |
| Clonality | **Polyclonal** |
| Isotype | **Rabbit IgG** |
| Calculated MW | **83869** |

### Myeloperoxidase (MPO) Antibody - Additional Information

**Gene ID** 4353

| | |
|---|---|
| Application & Usage | **Western blotting (0.5-4 µg/ml). However, the optimal concentrations should be determined individually. The antibody recognizes 60-100 kDa MPO from samples of human, mouse, and rat origins. Reactivity to other species has not been tested.** |

**Other Names**
MPO

**Target/Specificity**
MPO

**Antibody Form**
Liquid

**Appearance**
Colorless liquid

**Formulation**
100 µg (0.5 mg/ml) affinity purified rabbit anti-MPO polyclonal antibody in phosphate-buffered saline (PBS) containing 30% glycerol, 0.5% BSA, and 0.01% thimerosal.

**Handling**
The antibody solution should be gently mixed before use.

**Reconstitution & Storage**
-20 °C

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**Background Descriptions**

**Precautions**
Myeloperoxidase (MPO) Antibody is for research use only and not for use in diagnostic or therapeutic procedures.

## Myeloperoxidase (MPO) Antibody - 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:<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) Antibody - 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 (MPO) Antibody - Images

## Myeloperoxidase (MPO) Antibody - Background

Myeloperoxidase (MPO) is highly expressed in neutrophils and polymorphonuclear luekocytes. MPO is expressed as a dimer in regular neutrophils with a 140kDA. The glycoslated form of MPO has a molecular weight of 92kDa and when undergoes a final glycoslyation, MPO forms subunits of 60kDa and 12kDa. In recent studies, MPO was shown to be involved in the initiation and progression of cardiovascular disease.