

**MPO / Myeloperoxidase Antibody (clone 9B12G7)**  
**Mouse Monoclonal Antibody**  
**Catalog # ALS13046**

### Specification

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### MPO / Myeloperoxidase Antibody (clone 9B12G7) - Product Information

Application	IHC
Primary Accession	<a href="#">P05164</a>
Reactivity	Human
Host	Mouse
Clonality	Monoclonal
Calculated MW	84kDa KDa

### MPO / Myeloperoxidase Antibody (clone 9B12G7) - Additional Information

Gene ID 4353

#### Other Names

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

#### Target/Specificity

Human MPO

#### Reconstitution & Storage

Long term: -20°C; Short term: +4°C. Avoid repeat freeze-thaw cycles.

#### Precautions

MPO / Myeloperoxidase Antibody (clone 9B12G7) is for research use only and not for use in diagnostic or therapeutic procedures.

### MPO / Myeloperoxidase Antibody (clone 9B12G7) - 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.

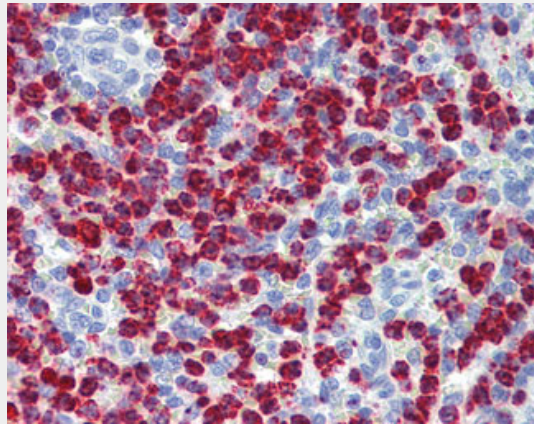
**Volume**  
50  $\mu$ l

### **MPO / Myeloperoxidase Antibody (clone 9B12G7) - Protocols**

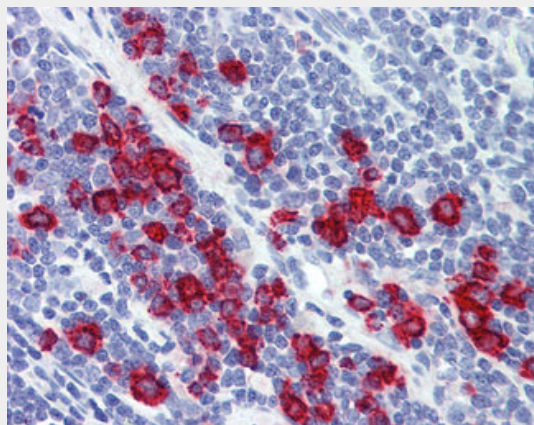
Provided below are standard protocols that you may find useful for product applications.

- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

### **MPO / Myeloperoxidase Antibody (clone 9B12G7) - Images**



Anti-MPO / Myeloperoxidase antibody IHC of human spleen.



Anti-MPO / Myeloperoxidase antibody IHC of human thymus.

### **MPO / Myeloperoxidase Antibody (clone 9B12G7) - Background**

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.

**MPO / Myeloperoxidase Antibody (clone 9B12G7) - References**

- Morishita K., et al. J. Biol. Chem. 262:3844-3851(1987).  
Morishita K., et al. J. Biol. Chem. 262:15208-15213(1987).  
Seto P., et al. J. Clin. Invest. 80:1205-1208(1987).  
Johnson K.R., et al. Nucleic Acids Res. 15:2013-2028(1987).  
Hashinaka K., et al. Biochemistry 27:5906-5914(1988).