

## Product datasheet

# Anti-Myeloperoxidase antibody [EPR4792] ab109116

Recombinant RabMAb

[2 References](#) [8 Images](#)

### Overview

<b>Product name</b>	Anti-Myeloperoxidase antibody [EPR4792]
<b>Description</b>	Rabbit monoclonal [EPR4792] to Myeloperoxidase
<b>Host species</b>	Rabbit
<b>Specificity</b>	ab109116 recognizes Myeloperoxidase (85-90 kDa) and its light chain (15 kDa).
<b>Tested applications</b>	<b>Suitable for:</b> WB, IHC-P <b>Unsuitable for:</b> Flow Cyt or IP
<b>Species reactivity</b>	<b>Reacts with:</b> Human
<b>Immunogen</b>	Synthetic peptide. This information is proprietary to Abcam and/or its suppliers.
<b>Positive control</b>	WB: HL-60 cell lysate IHC-P: Human colon, lung and spleen tissues
<b>General notes</b>	<p>This product is a recombinant monoclonal antibody, which offers several advantages including:</p> <ul style="list-style-type: none"> <li>- High batch-to-batch consistency and reproducibility</li> <li>- Improved sensitivity and specificity</li> <li>- Long-term security of supply</li> <li>- Animal-free production</li> </ul> <p>For more information <a href="#">see here</a>.</p> <p>Our RabMAb<sup>®</sup> technology is a patented hybridoma-based technology for making rabbit monoclonal antibodies. For details on our patents, please refer to <a href="#">RabMAb<sup>®</sup> patents</a>.</p> <p>Mouse, Rat: We have preliminary internal testing data to indicate this antibody may not react with these species. Please contact us for more information.</p>

### Properties

<b>Form</b>	Liquid
<b>Storage instructions</b>	Shipped at 4°C. Store at -20°C. Stable for 12 months at -20°C.
<b>Storage buffer</b>	<p>pH: 7.20</p> <p>Preservative: 0.01% Sodium azide</p> <p>Constituents: 9% PBS, 40% Glycerol (glycerin, glycerine), 0.05% BSA, 50% Tissue culture supernatant</p>
<b>Purity</b>	Protein A purified

<b>Clonality</b>	Monoclonal
<b>Clone number</b>	EPR4792
<b>Isotype</b>	IgG

## Applications

**The Abpromise guarantee** Our **Abpromise guarantee** covers the use of ab109116 in the following tested applications. The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

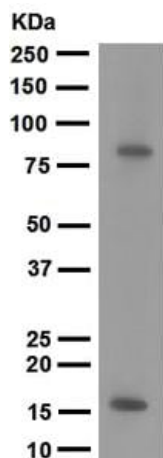
Application	Abreviews	Notes
<b>WB</b>		1/1000 - 1/10000. Predicted molecular weight: 84 kDa.
<b>IHC-P</b>		1/250 - 1/500. Perform heat mediated antigen retrieval with citrate buffer pH 6 before commencing with IHC staining protocol. Antigen retrieval is recommended.

**Application notes** Is unsuitable for Flow Cyt or IP.

## Target

<b>Function</b>	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.
<b>Involvement in disease</b>	Defects in MPO are the cause of myeloperoxidase deficiency (MPD) [MIM:254600]. MPD is an autosomal recessive defect that results in disseminated candidiasis.
<b>Sequence similarities</b>	Belongs to the peroxidase family. XPO subfamily.
<b>Cellular localization</b>	Lysosome.

## Images



Western blot - Anti-Myeloperoxidase antibody  
[EPR4792] (ab109116)

Anti-Myeloperoxidase antibody [EPR4792] (ab109116) at 1/1000  
dilution + HL-60 cell lysate at 10 µg

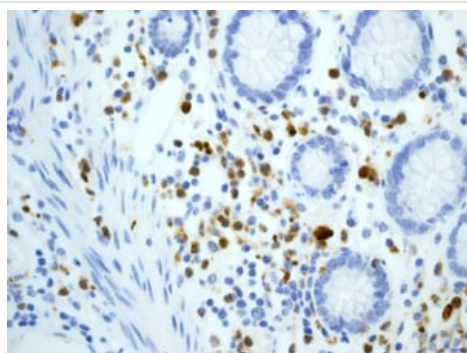
### Secondary

HRP labelled goat anti-rabbit at 1/2000 dilution

**Predicted band size:** 84 kDa

**Observed band size:** 85-90 kDa

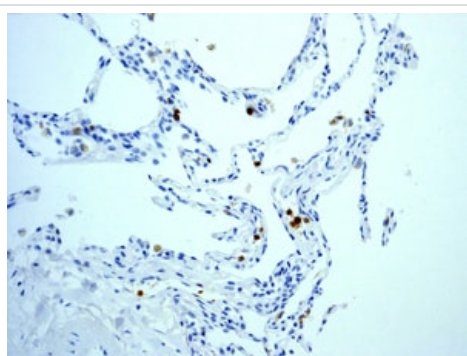
**Additional bands at:** 15 kDa (possible cleavage fragment)



Immunohistochemistry (Formalin/PFA-fixed paraffin-  
embedded sections) - Anti-Myeloperoxidase  
antibody [EPR4792] (ab109116)

ab109116, at a 1/250 dilution, staining Myeloperoxidase in paraffin  
embedded Human colon tissue by Immunohistochemistry.

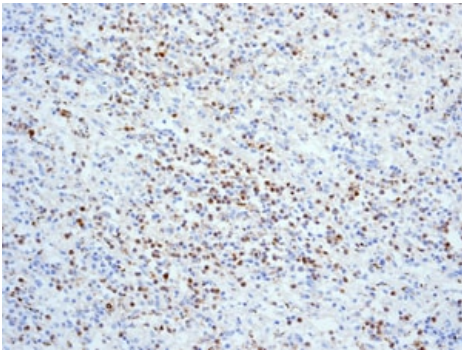
Perform heat mediated antigen retrieval with citrate buffer pH 6  
before commencing with IHC staining protocol.



Immunohistochemistry (Formalin/PFA-fixed paraffin-  
embedded sections) - Anti-Myeloperoxidase  
antibody [EPR4792] (ab109116)

ab109116, at a 1/250 dilution, staining Myeloperoxidase in paraffin  
embedded Human lung tissue by Immunohistochemistry.

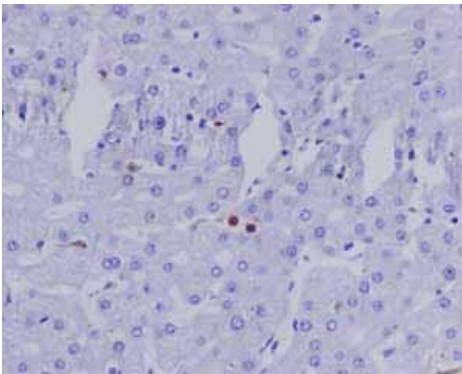
Perform heat mediated antigen retrieval with citrate buffer pH 6  
before commencing with IHC staining protocol.



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-Myeloperoxidase antibody [EPR4792] (ab109116)

ab109116, at a 1/250 dilution, staining Myeloperoxidase in paraffin embedded Human spleen tissue by Immunohistochemistry.

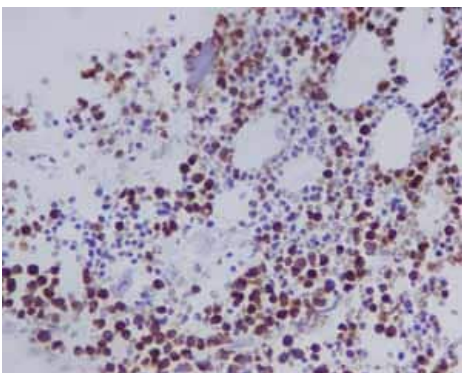
Perform heat mediated antigen retrieval with citrate buffer pH 6 before commencing with IHC staining protocol.



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-Myeloperoxidase antibody [EPR4792] (ab109116)

ab109116 showing positive staining in Normal liver tissue.

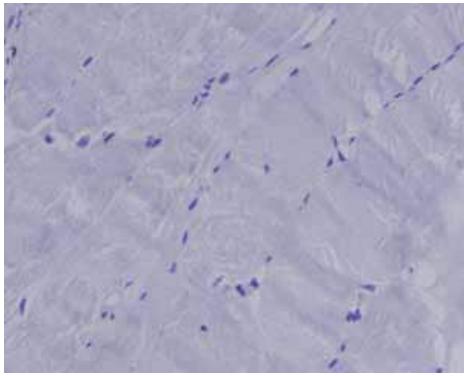
Perform heat mediated antigen retrieval with citrate buffer pH 6 before commencing with IHC staining protocol.



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-Myeloperoxidase antibody [EPR4792] (ab109116)

ab109116 showing positive staining in Bone marrow tissue.

Perform heat mediated antigen retrieval with citrate buffer pH 6 before commencing with IHC staining protocol.



ab109116 showing negative staining in Skeletal muscle tissue.

Perform heat mediated antigen retrieval with citrate buffer pH 6 before commencing with IHC staining protocol.

Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-Myeloperoxidase antibody [EPR4792] (ab109116)

Why choose a recombinant antibody?



**Research with confidence**  
Consistent and reproducible results



**Long-term and scalable supply**  
Recombinant technology



**Success from the first experiment**  
Confirmed specificity



**Ethical standards compliant**  
Animal-free production

Anti-Myeloperoxidase antibody [EPR4792] (ab109116)

**Please note:** All products are "FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC PROCEDURES"

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