

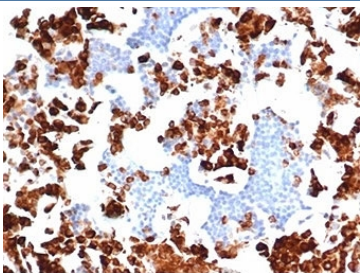
## MPO Antibody Recombinant Mouse MAb rMPO/6904 / Myeloperoxidase Antibody [clone rMPO/6904] (V9329)

Catalog No.	Formulation	Size
V9329-100UG	0.2 mg/ml in 1X PBS with 0.1 mg/ml BSA (US sourced), 0.05% sodium azide	100 ug
V9329-20UG	0.2 mg/ml in 1X PBS with 0.1 mg/ml BSA (US sourced), 0.05% sodium azide	20 ug
V9329SAF-100UG	1 mg/ml in 1X PBS; BSA free, sodium azide free	100 ug

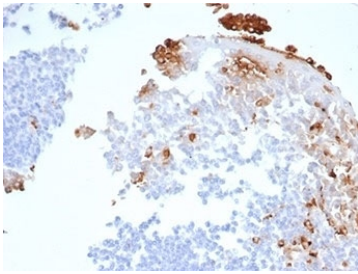
Recombinant **MOUSE MONOCLONAL**

[Bulk quote request](#)

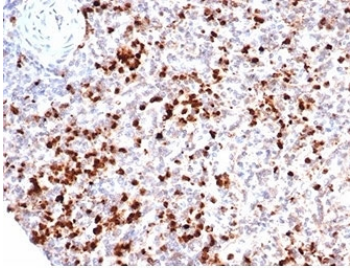
<b>Availability</b>	1-3 business days
<b>Species Reactivity</b>	Human
<b>Format</b>	Purified
<b>Host</b>	Mouse
<b>Clonality</b>	Recombinant Mouse Monoclonal
<b>Isotype</b>	Mouse IgG1, kappa
<b>Clone Name</b>	rMPO/6904
<b>Purity</b>	Protein A/G affinity
<b>UniProt</b>	P05164
<b>Localization</b>	Cytoplasm
<b>Applications</b>	Immunohistochemistry (FFPE) : 1-2ug/ml Western Blot : 1-2ug/ml
<b>Limitations</b>	This MPO antibody is available for research use only.



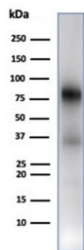
MPO Antibody Recombinant Mouse MAb rMPO/6904 / Myeloperoxidase Antibody. Immunohistochemistry analysis of FFPE human bone marrow tissue using MPO antibody recombinant mouse mAb rMPO/6904. Strong cytoplasmic brown staining is observed in numerous granulocytic cells within the bone marrow, consistent with the known localization of Myeloperoxidase / MPO in neutrophil lineage cells and developing myeloid precursors. Non-granulocytic hematopoietic cells show minimal staining. Heat-induced epitope retrieval was performed by boiling tissue sections in pH 9 10mM Tris with 1mM EDTA for 20 minutes followed by cooling prior to staining.



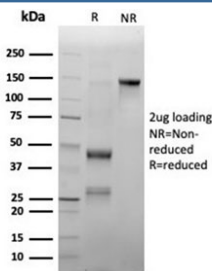
IHC staining of FFPE human tonsil tissue with recombinant MPO antibody (clone rMPO/6904). HIER: boil tissue sections in pH 9 10mM Tris with 1mM EDTA for 20 min and allow to cool before testing.



IHC staining of FFPE human spleen tissue with recombinant MPO antibody (clone rMPO/6904). HIER: boil tissue sections in pH 9 10mM Tris with 1mM EDTA for 20 min and allow to cool before testing.



MPO Antibody Recombinant Mouse MAb rMPO/6904 / Myeloperoxidase Antibody. Western blot analysis of human spleen tissue lysate using MPO antibody recombinant mouse mAb rMPO/6904. A prominent band is detected at approximately 60-70 kDa, consistent with the predicted molecular weight of the Myeloperoxidase / MPO alpha chain. Additional higher molecular weight signal may be observed corresponding to glycosylated or mature MPO species, which can migrate above 150 kDa due to glycosylation and processing of the enzyme in myeloid lineage cells.



SDS-PAGE analysis of purified, BSA-free MPO antibody (clone rMPO/6904) as confirmation of integrity and purity.

## Description

Myeloperoxidase (MPO) is a heme-containing peroxidase enzyme encoded by the MPO gene and predominantly expressed in neutrophils and other cells of the myeloid lineage. MPO Antibody Recombinant Mouse MAb rMPO/6904 recognizes this important enzyme and enables detection of Myeloperoxidase expression in studies focused on immune cell biology, inflammation, and myeloid cell differentiation. Because MPO is highly abundant in neutrophil granules, detection of this enzyme provides a useful marker for identifying granulocytic cells within complex biological samples.

Myeloperoxidase antibody, also referred to as MPO antibody or myeloid peroxidase antibody in the literature, detects an enzyme localized within the azurophilic granules of neutrophils and certain monocyte-derived cells. MPO participates in host defense by catalyzing the formation of reactive oxidant species used by neutrophils to destroy invading microorganisms. This enzymatic activity plays a central role in the antimicrobial function of neutrophils during inflammatory responses.

Within cells, MPO is stored in specialized cytoplasmic granules that are released during neutrophil activation. When neutrophils encounter pathogens, MPO contributes to the generation of hypochlorous acid and other reactive intermediates that participate in microbial killing. Because of this biological role, MPO expression is strongly associated with granulocytes and cells involved in innate immune responses.

Detection of MPO is widely used in research examining inflammatory processes, immune cell recruitment, and myeloid lineage biology. MPO-positive cells can be observed in tissues undergoing inflammatory responses where neutrophil infiltration occurs. In addition, MPO detection is commonly used to identify granulocytic differentiation in studies of hematopoiesis and myeloid cell development.

MPO Antibody Recombinant Mouse MAb rMPO/6904 supports detection of the Myeloperoxidase / MPO enzyme in research applications focused on neutrophil biology, inflammation, and immune responses. This recombinant mouse monoclonal antibody enables investigators to examine MPO expression patterns and evaluate the presence of MPO-expressing myeloid cells in experimental systems.

## Application Notes

Optimal dilution of the recombinant MPO Antibody Recombinant Mouse MAb rMPO/6904 should be determined by the researcher.

## Immunogen

A portion of amino acids 150-250 was used as the immunogen for the recombinant MPO antibody.

## Storage

Aliquot the MPO antibody and store frozen at -20°C or colder. Avoid repeated freeze-thaw cycles.

## Alternate Names

Myeloperoxidase antibody, MPO antibody, Myeloperoxidase MPO antibody, Myeloid peroxidase antibody, Neutrophil myeloperoxidase antibody