

Rabbit Myeloperoxidase Polyclonal Antibody | anti-MPO antibody

Myeloperoxidase

CATALOG # AAA59437	HOST Rabbit	REACTIVITY Paraffin, Frozen	APPLICATIONS Immunohistochemistry
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PRODUCT SYNONYMS

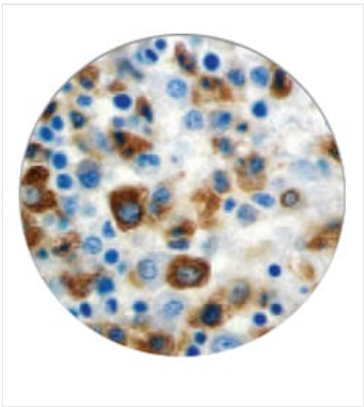
Myeloperoxidase; Polyclonal Antibody; anti-MPO antibody

PRODUCT SPECIFICATIONS

Host	Rabbit
Reactivity	Paraffin, Frozen
Clonality	Polyclonal
Isotype	IgG
Form/Format	Myeloperoxidase is a purified immunoglobulin fraction of rabbit antiserum that is filter sterilized and diluted in buffer pH 7.5, containing BSA and sodium azide as a preservative.
Applicable Applications for anti-MPO antibody	IHC (Immunohistochemistry)
Control	Bone Marrow
Localization	Cytoplasmic
Intended Use	This antibody is intended for use in Immunohistochemical applications on formalin-fixed paraffin-embedded tissues (FFPE), frozen tissue sections and cell preparations. Interpretation of results should be performed by a qualified medical professional.
Immunogen	Purified human granulocytic MPO.
Species Reactivity	Human, Dog, Cat.
Precautions	1. For profesional users only. Ensure results are interpreted by a medical professional. 2. This product contains sodium azide (NaN₃), a toxic chemical which may react with plumbing to form highly explosive build-ups of metal azides. Upon disposal, flush with large volumes of water to prevent sodium azide build-up. 3. Ensure proper handling procedures are used with reagent. Always wear proper laboratory equipment such as laboratory coat and gloves when handling reagents. 4. Unused solution should be disposed of according to local and federal regulations. 5. Do not ingest reagent. If reagent ingested, contact a poison control center immediately. 6. For complete recommendations for handling biological specimens please refer to the CDC document, "Guidelines for Safe Work Practices in Human and Animal Medical Laboratories" (3).
Specimen Preparation	Paraffin sections: The antibody can be used on formalin-fixed paraffin-embedded (FFPE) tissue sections. Ensure tissue undergoes appropriate fixation to ensure best results. Frozen sections and cell preparations: The antibody can be used for labeling acetone-fixed frozen sections and acetone-fixed cell preparations.
Control	Bone Marrow
Localization	Cytoplasmic

Intended Use	This antibody is intended for use in Immunohistochemical applications on formalin-fixed paraffin-embedded tissues (FFPE), frozen tissue sections and cell preparations. Interpretation of results should be performed by a qualified medical professional.
Immunogen	Purified human granulocytic MPO.
Species Reactivity	Human, Dog, Cat.
Precautions	1. For professional users only. Ensure results are interpreted by a medical professional. 2. This product contains sodium azide (NaN₃), a toxic chemical which may react with plumbing to form highly explosive build-ups of metal azides. Upon disposal, flush with large volumes of water to prevent sodium azide build-up. 3. Ensure proper handling procedures are used with reagent. Always wear proper laboratory equipment such as laboratory coat and gloves when handling reagents. 4. Unused solution should be disposed of according to local and federal regulations. 5. Do not ingest reagent. If reagent ingested, contact a poison control center immediately. 6. For complete recommendations for handling biological specimens please refer to the CDC document, "Guidelines for Safe Work Practices in Human and Animal Laboratories" (3).
Specimen Preparation	Paraffin sections: The antibody can be used on formalin-fixed paraffin-embedded (FFPE) tissue sections. Ensure tissue undergoes appropriate fixation to ensure best results. Frozen sections and cell preparations: The antibody can be used for labeling acetone-fixed frozen sections and acetone-fixed cell preparations.
Recommended IHC Protocol	Step : Peroxidase/AP Blocker ImmunoDetector AP/HRP : 5 min. PolyDetector AP/HRP: 5 min. PolyDetector Plus HRP: 5 min. Step : Primary Antibody. ImmunoDetector AP/HRP :30-60 min PolyDetector AP/HRP: 30-60 min PolyDetector Plus HRP :30-60 min Step : 1st Step Detection ImmunoDetector AP/HRP :10 min PolyDetector AP/HRP: 30-45 min. PolyDetector Plus HRP: 15 min. Step : 2nd Step Detection ImmunoDetector AP/HRP : 10min. PolyDetector AP/HRP: Not applicable PolyDetector Plus HRP: 15 min. Step :Substrate-Chromogen ImmunoDetector AP/HRP : 5-10 min. PolyDetector AP/HRP: 5-10 min. PolyDetector Plus HRP: 5-10 min. Step : Counterstain ImmunoDetector AP/HRP :Varies PolyDetector AP/HRP:Varies PolyDetector Plus HRP: Varies.
Preparation and Storage	Store at 2-8 °C. Do not use after expiration date listed on package label. Temperature fluctuations should be avoided. Store appropriately when not in use, and avoid prolonged exposure to room temperature conditions.

IMAGES



IHC (Immunohistochemistry)
Inset: IHC of Myeloperoxidase on a FFPE Bone Marrow Tissue

ADDITIONAL INFORMATION

Related Product Information for anti-MPO antibody	Myeloperoxidase (MPO) is a peroxidase enzyme most abundantly present in neutrophil granulocytes. It is a lysosomal protein stored in azurophilic granules of the neutrophil. MPO has a heme pigment, which causes its green color in secretions rich in neutrophils, such as pus and some forms of mucus. Historically, immunohistochemical staining for myeloperoxidase was used in the identification of Acute Myeloid Leukemia to demonstrate that the leukemic cells were derived from the myeloid lineage. Myeloperoxidase staining is still important in the identification of Extramedullary Leukemia or Chloroma. Myeloperoxidase detects granulocytes and monocytes in blood and precursors of granulocytes in the bone marrow. This antibody can detect myeloid cell populations of the bone marrow as well as in other sites.
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NCBI AND UNIPROT INFORMATION

NCBI GI #	4557759
NCBI GeneID	4353
NCBI Accession #	NP_000241.1
NCBI GenBank Nucleotide #	NM_000250.1
UniProt Accession #	P05164; Q14862; Q4PJH5; Q9UCL7; A1L4B8; Q16771
NCBI Official Full Name	myeloperoxidase
NCBI Official Synonym Full Names	myeloperoxidase
NCBI Official Symbol	MPO
NCBI Official Synonym Symbols	MPO
NCBI Protein Information	myeloperoxidase
UniProt Protein Name	Myeloperoxidase
UniProt Gene Name	MPO
UniProt Entry Name	PERM_HUMAN

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.