**Myeloperoxidase (MPO) Ab-1**

**Rabbit Polyclonal Antibody**

Cat. #RB-373-A0, -A1, or -A (0.1ml, 0.5ml, or 1.0ml)
Cat. #RB-373-R7 (7.0ml) (Ready-to-Use for Immunohistochemistry)
Cat. #RB-373-RQ (12.0ml) (Ready-to-Use for Immunohistochemistry)
Cat. #RB-373-PCS (5 Slides) (Positive Control for Histology)

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**Description:** Myeloperoxidase is an important enzyme used by granulocytes during phagocytic lysis of foreign particles engulfed. In normal tissues and in a variety of myeloproliferative disorders myeloid cells of both neutrophilic and eosinophilic types, at all stages of maturation, exhibit strong cytoplasmic reactivity for MPO. Erythroid precursors, megakaryocytes, lymphoid cells, mast cells, and plasma cells are nonreactive. MPO is not observed in the neoplastic cells of a wide variety of epithelial tumors and sarcomas. MPO is useful in differentiating between myeloid and lymphoid leukemias.

**Epitope:** Not determined

**Species Reactivity:** Human, Mouse, and Rat. Others-not known

**Immunogen:** Purified human granulocytic MPO

**Applications and Suggested Dilutions:**
- Immunohistology (Formalin/paraffin)
  Use Ab 1:100-1:200 for 30min at RT using UltraVision LP Detection Systems
- Use Ab 1:800 for 20 min at RT using UltraVision Quanto Detection Systems
  * [Staining of formalin-fixed tissues REQUIRES boiling tissue sections in 10mM citrate buffer, pH 6.0, (Lab Vision Cat. #AP-9003), for 10-20 min followed by cooling at RT for 20 min]

The optimal dilution for a specific application should be determined by the investigator.

**Positive Control:** Tonsil or spleen

**Cellular Localization:** Cytoplasmic

**Supplied As:**
- Purified antibody fraction from rabbit anti-serum. Prepared in 10mM PBS, pH 7.4, with 0.2% BSA and 0.09% sodium azide,
  or
- Prediluted antibody which is ready-to-use for staining of formalin-fixed, paraffin-embedded tissues.

**Storage and Stability:**
Store vial at 4°C. When stored at 2-8°C, this antibody is stable for 24 months.

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**Suggested References:**

**Limitations and Warranty:**
Our products are intended FOR RESEARCH USE ONLY and are not approved for clinical diagnosis, drug use or therapeutic procedures. No products are to be construed as a recommendation for use in violation of any patents. We make no representations, warranties or assurances as to the accuracy or completeness of information provided on our data sheets and website. Our warranty is limited to the actual price paid for the product. Lab Vision is not liable for any property damage, personal injury, time or effort or economic loss caused by our products.

**Material Safety Data:**
This product is not licensed or approved for administration to humans or to animals other than the experimental animals. Standard Laboratory Practices should be followed when handling this material. The chemical, physical, and toxicological properties of this material have not been thoroughly investigated. Appropriate measures should be taken to avoid skin and eye contact, inhalation, and ingestion. The material contains 0.09% sodium azide as a preservative. Although the quantity of azide is very small, appropriate care should be taken when handling this material as indicated above. The National Institute of Occupational Safety and Health has issued a bulletin citing the potential explosion hazard due to the reaction of sodium azide with copper, lead, brass, or solder in the plumbing systems. Sodium azide forms hydrazoic acid in acidic conditions and should be discarded in a large volume of running water to avoid deposits forming in metal drainage pipes.

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Additional Suggested References:
3. Chubbachi A; Wakui H; Miura I; Saitoh M; Nishinari T; Nishimura S; Miura AB. Extramedullary megakaryoblastic tumors following an indolent phase of myelofibrosis. Leukemia and Lymphoma, 1995 Apr, 17(3-4):351-4.
5. Nagai K; Sohda H; Kuriyama K; Kaminoh S; Tomonaga M. Usefulness of immunocytochemistry for phenotypical analysis of acute leukemia; improved fixation procedure and comparative study with flow cytometry. Leukemia and Lymphoma, 1995 Jan, 16(3-4):319-27.
8. Stasi R; Del Poeta G; Venditti A; Bruno A; Suppo G; Aronica G; Di Carlo G; Papa G. Lineage identification of acute leukemias: relevance of immunologic and ultrastructural techniques. Hematologic Pathology, 1995, 104(4):431-43.
11. Farahat N; van der Plas D; Praxedes M; Morilla R; Matutes E; Catovsky D. Demonstration of cytoplasmic and nuclear antigens in acute leukaeemia using flow cytometry. Journal of Clinical Pathology, 1994 Sep, 47(9):843-9.

Please note this data sheet has been changed effective December 8, 2011
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21. Campana D; Hansen-Hagge TE; Matutes E; Coustan-Smith E; Yokota S; Shetty V; Bartram CR; Janossy G. Phenotypic, genotypic, cytochemical, and ultrastructural characterization of acute undifferentiated leukemia. Leukemia, 1990, 4:620-4.