





## MPO in the Studies of Myeloid Leukemias and Myeloid Differentiation

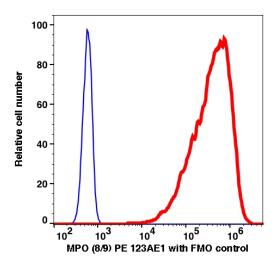
**Myeloperoxidase (MPO)** is present in azurophilic granules of the neutrophil which appear in the promyelocyte stage of differentiation and is expressed in granulomonocytic cells.

**MPO** is a major enzyme involved in the inflammatory responses of polymorphonuclear leucocytes. It has been associated with both a myeloid lineage commitment and favorable prognosis in patients with acute myeloid leukemia (**AML**).

**MPO** was detectable in 3/4 AML with T-lymphoid features, anti-MPO is an excellent marker for the diagnosis and classification of acute leukemia and can be reliably detected by **flow cytometry**. This rapid technique should be a valuable addition to routine immunophenotyping of acute leukemia.

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Granulocytes gated RBC lysed WBC intracellularly stained with anti-MPO (8/9) PE (RED); Granulocytes gated RBC lysed WBC are used as FMO control (BLUE).

## References:

- Detection of myeloperoxidase by flow cytometry in acute leukemia Kazunori Nakase, Mary Sartor, Kenneth Bradstock, 26 December 2002
- 2. Expression of myeloperoxidase in acute myeloid leukemia blasts mirrors the distinct DNA methylation pattern involving the downregulation of DNA methyltransferase DNMT3B

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