

Product Data Sheet

□ Cat # RP-415

Recombinant Human Myeloperoxidase

Size: □ 2 ug

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.

**Source:** *Escherichia Coli*. Myeloperoxidase Human Recombinant protein encoding amino acids 621-745 expressed in E.coli. The MPO purified by proprietary chromatographic techniques. The protein at 100 µg/ml in 50mM Tris-Acetate, pH 7.5, 1mM EDTA and 20% Glycerol

**Applications and Suggested Dilutions:** · ELISA · Inhibition Assays · Western Blotting On SDS-PAGE commassie blue stained gel, the purified recombinant protein shows a band at 40kDa. Users must optimize the appropriate concentration and conditions for each assay.

**Storage and Stability:** Store vial at -20°C to -80°C. When stored at the recommended temperature, this protein is stable for 12 months. Avoid multiple freeze-thaw cycles. If supplied in powder then reconstitute it in 100 ul water for 1 mg/ml stock and store in liquid at 4oC for ~1 week or aliquots in suitable size and store at -20oC for long term storage.

**Usage:** This item is for LABORATORY RESEARCH USE ONLY. The product may not be used as drugs, agricultural or pesticidal products, food additives or household chemicals.

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