

Product datasheet for R1537P

Myeloperoxidase (MPO) Rabbit Polyclonal Antibody

Product data:

Product Type:	Primary Antibodies
Applications:	ELISA, IP, WB
Recommended Dilution:	This antibody is suitable for western blotting, ELISA (1:200,000) and Immunoprecipitation. Although not tested, this antibody is likely functional in Immunohistochemistry and other immunological methods. This product was assayed by Immunoblot and was found to be reactive with human myeloperoxidase isolated from leukocytes. The blot was probed with Immunochemical's anti-Myeloperoxidase [Human Leukocytes] used at a dilution of 1:2000. Use Peroxidase Conjugated Affinity Purified Anti-RABBIT IgG (H&L) (GOAT) as a secondary antibody for detection. The antibody detects a multiple bands corresponding to 53 kDa and 15 kDa polypeptides and possibly other chain combination (68 kDa and 106 kDa).
Reactivity:	Human
Host:	Rabbit
Isotype:	IgG
Clonality:	Polyclonal
Immunogen:	Myeloperoxidase [Human Leukocytes]
Specificity:	This product is an IgG fraction antibody purified from monospecific antiserum. Assay by immunoelectrophoresis resulted in a single precipitin arc against purified and partially purified Myeloperoxidase [Human Leukocytes]. Anti-Human Myeloperoxidase may react with MPO from other sources. Anti-Human Myeloperoxidase detects neutrophilic granulocytes and monocytes in blood and precursors of granulocytes in the bone marrow. This antibody may also detect myeloid leukemias of the bone marrow as well as other sites.
Formulation:	0.02 M Potassium Phosphate, 0.15 M Sodium Chloride, pH 7.2 with 0.01% Gentamicin Sulfate as preservative. State: Purified State: Lyophilized purified Ig fraction.
Reconstitution Method:	Restore with 0.1 ml of deionized water (or equivalent).
Concentration:	lot specific
Purification:	Multistep process which includes delipidation, salt fractionation and ion exchange chromatography followed by extensive dialysis against the buffer stated below.



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Conjugation:	Unconjugated
Storage:	Store vial at 2-8°C prior to restoration. Restore with 0.1 ml of deionized water (or equivalent). For extended storage add glycerol to 50% and then aliquot contents and freeze at -20°C or below. Centrifuge product if not completely clear after standing at room temperature. This product is stable for one month at 2-8°C as an undiluted liquid. Dilute only prior to immediate use. Avoid cycles of freezing and thawing.
Stability:	Shelf life: one year from despatch
Gene Name:	myeloperoxidase
Database Link:	Entrez Gene 4353 Human P05164
Background:	Human myeloperoxidase (MPO) is a dimeric protein composed of two heavy subunits (53 kDa) and two light subunits (15 kDa). Each MPO molecule contains two prosthetic porphyrins which play an important role in the catalytic cycle. Molecular weights for MPO isoforms from pools of normal human samples range from 114,000 to 140,000 daltons reflecting a heterogeneous mixture of isoforms when assayed under non-reducing conditions of SDS-PAGE. Often MPO from a single donor will yield a homogenous preparation reflecting a single isoform. The carbohydrate component of MPO, consisting of mannose, glucose and N-acetylglucosamine residues is 2.5%. MPO is inhibited by azide and other compounds. MPO is stored in primary granules of neutrophils and serves as a bactericidal agent in that MPO catalyzes the production of hypochlorous acid (HOCl), a powerful oxidant. HOCl is derived from chloride ion (Cl ⁻) and hydrogen peroxide (H ₂ O ₂). In a number of inflammatory situations, MPO is released into the extracellular matrix where its measurement can be used as an indication of neutrophil activation.
Synonyms:	MPO