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**Rabbit Anti-Human Myeloperoxidase (MPO)
Polyclonal Antibody**

Catalogue#	Format	Size	Concentration
CL7649AP	Purified	200 µg	1.0 mg/ml
CL7649B	Biotin	100 µg	0.1 mg/ml
CL7649F	FITC	100 µg	0.1 mg/ml
CL7649HP	HRPO	100 µg	0.1 mg/ml

Isotype: Rabbit IgG

DESCRIPTION:

Myeloperoxidase (MPO) is a 150KDa lysosomal hemoprotein located in the azurophilic granules of neutrophils and monocytes. MPO is a dimeric protein and each dimer contains a two variable ~60-kD heavy unit and a two 12-kD light subunit. MPO is responsible for the microbicidal activity of neutrophils and monocytes against a wide range of organisms. MPO exerts its activity through the production of the cytotoxic compound hypochlorous acid (HOCl) and through generation of tyrosyl radicals on invading organisms.

PRESENTATION:

Purified: Purified IgG buffered in PBS and 0.02% NaN₃. (Purified from serum via Affinity Chromatography). For maximum recovery of contents, spin down tube before use.

Biotin, FITC: Biotin/FITC conjugated IgG buffered in PBS, 0.02% NaN₃ and EIA grade BSA as a stabilizing protein to bring total protein concentration to 4-5 mg/ml.

HRPO: HRPO conjugated IgG buffered in PBS with 40 % glycerol (v/v) and EIA grade BSA as a stabilizing protein to bring total protein concentration to 4-5 mg/ml. No NaN₃ with other preservatives.

STORAGE/STABILITY:

For all formats, store at + 4°C. For long term storage, aliquot and freeze unused portion at -20°C in volumes appropriate for single usage. Avoid freeze/thaw cycles.

SPECIFICATION:

Immunogen: Native human Myeloperoxidase purified from human Neutrophils.

Specificity: This antibody is specific for the human Myeloperoxidase (MPO).

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Application: Suggested minimum working dilution of 1:100 in Western Blot and 1:8000 – 1:16000 (CL7649AP) or 1:1000 – 1:2000 (CL7649B) in ELISA. This antibody has not been tested in other applications.

REFERENCES:

1. M Mathy-Hartert *et al.* (1998). "Purification of myeloperoxidase from equine polymorphonuclear leucocytes". *Can J Vet Res.* **62** (2): 127–132.
2. Nicholls SJ, Hazen SL (2005). "Myeloperoxidase and cardiovascular disease". *Arterioscler. Thromb. Vasc. Biol.* **25** (6): 1102–11

Optimum conditions for use of this antibody in analytical procedures should be established in each laboratory
Laboratory Reagent For Research Use Only

AH 08/05/11