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Product datasheet for BP2067

Myeloperoxidase (MPO) Rabbit Polyclonal Antibody

Product data:

Product Type:	Primary Antibodies
Applications:	ELISA, WB
Recommended Dilution:	ELISA (>1:4,000) and western blotting (1:4,000 dilution gives a strong reaction to 0.3 and 0.6 µg antigen).
Reactivity:	Human
Host:	Rabbit
Clonality:	Polyclonal
Immunogen:	Neutrophil Myeloperoxidase
Specificity:	Highly specific for human Myeloperoxidase: Single arc upon immunoelectrophoresis of human neutrophil granule extract. Single arc upon immunoelectrophoresis of antigen.
Formulation:	PBS, pH 7.4, with 0.09% sodium azide. State: Ig Fraction State: Liquid purified IgG fraction.
Concentration:	lot specific
Purification:	Ammonium sulfate precipitation and DEAE-Sephacel ion exchange chromatography.
Conjugation:	Unconjugated
Storage:	Store the antibody undiluted at 2-8°C for one month or (in aliquots) at -20°C for longer. Avoid repeated freezing and thawing.
Stability:	Shelf life: one year from despatch.
Gene Name:	myeloperoxidase
Database Link:	Entrez Gene 4353 Human P05164

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Background: Myeloperoxidase is a hemoprotein that is abundantly expressed in neutrophils and secreted during their activation. Native Myeloperoxidase is represented as a covalently bound tetrameric complex of two glycosylated alpha chains (MW 59 - 64 kDa) and two unglycosylated beta chains (MW 14 kDa) with total MW 150 kDa and theoretical pI 9.2. Traditionally Myeloperoxidase was considered as a main target of anti-neutrophil cytoplasm antibodies (ANCA), the serological markers for certain systemic vasculities e.g. periarteriitis nodosa, microscopic polyarteriitis and pulmonary eosinophilic granulomatosis (Churg-Strauss syndrome). Low to moderate anti-Myeloperoxidase autoantibody levels are also reported in rheumatoid arthritis. Recently it was shown that Myeloperoxidase participates in the initiation and progression of cardiovascular disease. It possesses potent proinflammatory properties and may contribute directly to tissue injury. Now Myeloperoxidase is under consideration as one of the most promising cardiac markers.

Synonyms: MPO