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Myeloperoxidase (P733) Antibody



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For Research Use Only. Not for Use in Diagnostic Procedures.

Applications: W	Reactivity: H R	Sensitivity: Endogenous	MW (kDa): 60, 80-90	Source/Isotype: Rabbit	UniProt ID: #P05164	Entrez-Gene Id: 4353	
Product Usage Information		Application Western Blotting			Dilution 1:1000		
Storage		Supplied in 10 mM sodium HEPES (pH 7.5), 150 mM NaCl, 100 μg/ml BSA and 50% glycerol. Store at – 20°C. Do not aliquot the antibody.					
Specificity/Sensitivity Myeloperoxidase (P733) Antibody detect detects the heavy chain of myeloperoxid		3) Antibody detects n of myeloperoxida	endogenous levels of to ise.	otal myeloperoxidas	se. The antibody		
Species predicte based on 100% s homology	d to react equence	Monkey					
Source / Purifica	tion	Polyclonal antibodies are produced by immunizing animals with a synthetic peptide corresponding to residues surrounding Pro733 of human myeloperoxidase. Antibodies were purified by protein A and peptide affinity chromatography.					
Background		Myeloperoxidase (MPO) is a peroxidase enzyme that is part of the host defense system of polymorphonuclear leukocytes (reviewed in 1). The gene for MPO was cloned independently from several laboratories (2-5). A decrease in MPO expression was noticed upon differentiation of HL-60 cells (5). MPO catalyzes the reaction of hydrogen peroxide and chloride (or other halides) to produce hypochlorous acid and other potent antimicrobial oxidants. Knockout mice of MPO are impaired in clearing select microbial infections (6). Processing of mature MPO from an initial 80-90 kDa translation product involves insertion of a heme moiety, glycosylation, and proteolytic cleavage. The mature protein is a tetramer of two heavy chains (60 kDa) and two light chains (12 kDa). It is abundantly expressed in neutrophils and monocytes and secreted during their activation. Heightened MPO levels have been associated with tissue damage and a number of pathological conditions (1).					
Background References 1. Klebanoff, S.J. (2005) J Leukoc Biol 77, 598-625. 2. Chang, K.S. et al. (1986) Blood 68, 1411-4. 3. Yamada, M. et al. (1987) Arch Biochem Biophys 255, 147-55. 4. Morishita, K. et al. (1987) J Biol Chem 262, 3844-51. 5. Weil, S.C. et al. (1987) Proc Natl Acad Sci USA 84, 2057-61. 6. Aratani, Y. et al. (2002) J Infect Dis 185, 1833-7.							
Species Reactivi	ty	Species reactivity is det	termined by testing	g in at least one approve	d application (e.g.,	western blot).	
Western Blot Buffer		IMPORTANT: For western blots, incubate membrane with diluted primary antibody in 5% w/v BSA, 1X TBS, 0.1% Tween® 20 at 4°C with gentle shaking, overnight.					
Applications Key	1	W: Western Blotting					
Cross-Reactivity	ss-Reactivity Key H: Human R: Rat						
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