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## Myeloperoxidase (E1E7I) XP® Rabbit mAb



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	ane   Danvers   Massachusetts   01923   USA										
For Research Use Only. Not for Use in Diagnostic Procedures.											
Applications: WB, IHC-P, IF-IC, FC- FP	Reactivity: H	Sensitivity: Endogenous	<b>MW (kDa):</b> 60, 80-90	Source/Isotype: Rabbit IgG	UniProt ID: #P05164	Entrez-Gene Id: 4353					
Product Usage	Αŗ	pplication			Dilution						
Information	We	estern Blotting			1:1000						
	lm	munohistochemistry	(Paraffin)		1:500 - 1:2000						
	lm	munofluorescence (	Immunocytochen	1:50 - 1:100							
	Flo	ow Cytometry (Fixed	/Permeabilized)	1:50 - 1:200							
Storage	Supplied in 10 mM sodium HEPES (pH 7.5), 150 mM NaCl, 100 μg/ml BSA, 50% glycerol and less than 0.02% sodium azide. Store at –20°C. <i>Do not aliquot the antibody.</i> For a carrier free (BSA and azide free) version of this product see product #88757.										
Specificity / Sensi	pro	Myeloperoxidase (E1E7I) XP <sup>®</sup> Rabbit mAb recognizes endogenous levels of total myeloperoxidase protein. This antibody recognizes the full-length and heavy chain subunits of human myeloperoxidase protein.									
Source / Purificati		Monoclonal antibody is produced by immunizing animals with a synthetic peptide corresponding to residues surrounding Pro734 of human myeloperoxidase protein.									
Background	poly labo cata	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).

1. Klebanoff, S.J. (2005) J Leukoc Biol 77, 598-625. **Background References** 

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 reactivity is determined by testing in at least one approved application (e.g., western blot). **Species Reactivity** 

IMPORTANT: For western blots, incubate membrane with diluted primary antibody in 5% w/v BSA, 1X TBS, **Western Blot Buffer** 

0.1% Tween® 20 at 4°C with gentle shaking, overnight.

WB: Western Blotting IHC-P: Immunohistochemistry (Paraffin) **Applications Key** 

IF-IC: Immunofluorescence (Immunocytochemistry) FC-FP: Flow Cytometry (Fixed/Permeabilized)

H: human M: mouse R: rat Hm: hamster Mk: monkey Vir: virus Mi: mink C: chicken Dm: D. melanogaster Cross-Reactivity Key

X: Xenopus Z: zebrafish B: bovine Dg: dog Pg: pig Sc: S. cerevisiae Ce: C. elegans Hr: horse

GP: Guinea Pig Rab: rabbit All: all species expected

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