For Research Use Only

MPO Monoclonal antibody Catalog Number:66177-1-lg Featured Product 55 Publications

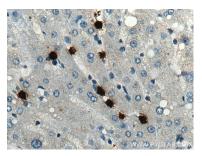


Basic Information	Catalog Number: 66177-1-lg Size: 150ul, Concentration: 700 ug/ml by Nanodrop and 700 ug/ml by Bradford method using BSA as the standard; Source: Mouse Isotype: IgA Immunogen Catalog Number: AG17564		n Number:	Purification Method: Caprylic acid/ammonium sulfate precipitation CloneNo.: 4C11F6 Recommended Dilutions: WB 1:1000-1:8000 IHC 1:400-1:1600 IF-P 1:200-1:800 IF/ICC 1:200-1:800	
Applications	Tested Applications: Positive C		Positive Co	ntrols:	
	WB, IHC, IF/ICC, IF-P, FC (Intra), ELISA		WB : HL-60 c	WB : HL-60 cells,	
	Cited Applications:		IHC : human	IHC : human liver tissue, human tonsillitis tissue	
	WB, IHC, IF, IP, ELISA		IF-P : humar	human appendicitis tissue,	
	Species Specificity: IF/ICC : IF/ICC :		IF/ICC : HL-0	60 cells,	
	Cited Species:				
	human, rat, bovine, cow				
Background Information	with TE buffer pH 9.0; (*) Alternatively, antigen retrieval may be performed with citrate buffer pH 6.0 The MPO gene encodes myeloperoxidase, a lysosomal hemoprotein located in the azurophilic granules of polymorphonuclear (PMN) leukocytes and monocytes. In response to stimulation, MPO is activated into a transient intermediate with potent antimicrobial oxidizing abilities(PMID:17650507). The mRNA is translated into a single protein of 90 kDa, which displays enzymatic activity and undergoes proteolytic maturation into a heavy chain of 59 kDa and a light chain of 13.5 kDa; these subunits then dimerize into the mature tetramer and the mature MPO is a heterotetramer composed of two identical heavy chains and two identical light chains(PMID:12773517). Fragments with molecular masses of 43-47 kDa were formed by autocatalysis during warming in sample buffer (PMID:12960244). The 24-kDa material had a map identical to that of 13.5 kDa subunit and represents a dimer of the 13.5 kDa subunit (PMID:3008892). Defects in MPO are the cause of myeloperoxidase deficiency (MPOD). It has 3 isoforms produced by alternative splicing.				
Notable Publications	Author Put	omed ID Jo	urnal	Application	
	Guanxin Lv 340	631861 Fr	ont Vet Sci	IF	
	Zichao Cao 363	177002 Fr	ont Immunol	IHC	
	Zhiyong Wu 278	830014 Ar	n J Transl Res	IHC	
Storage	Storage: Store at -20°C. Stable for one year aft Storage Buffer: PBS with 0.02% sodium azide and 50 Aliquoting is unnecessary for -20°C s	% glycerol, pH7.3			
*** 20ul sizes contain 0.1%BSA					
For technical support and original validation da T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or 1(312) 455-8498 (outside USA)	ta for this product please contact: E: proteintech@ptglab.com W: ptglab.com		This product is exclusively available under Proteintech Group brand and is not available to purchase from any other manufacturer.		

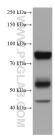
Selected Validation Data



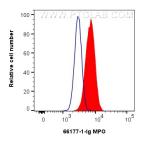
Immunohistochemical analysis of paraffinembedded human liver tissue slide using 66177-1-Ig (MPO antibody) at dilution of 1:800 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



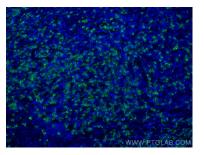
Immunohistochemical analysis of paraffinembedded human liver tissue slide using 66177-1-Ig (MPO antibody) at dilution of 1:800 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



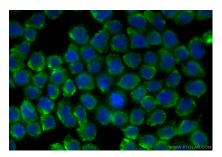
HL-60 cells were subjected to SDS PAGE followed by western blot with 66177-1-1g (MPO antibody) at dilution of 1:4000 incubated at room temperature for 1.5 hours.



1x10^6 HL-60 cells were intracellularly stained with 0.25 ug MPO Monoclonal antibody (66177-1-Ig, Clone:4C11F6) and CoraLite@488-Conjugated Goat Anti-Mouse IgG(H+L) (SA00013-1)(red), or 0.25 ug Isotype Control (blue). Cells were fixed with 4% PFA and permeabilized with Flow Cytometry Perm Buffer (PF00011-C).



Immunofluorescent analysis of (4% PFA) fixed paraffin-embedded human appendicitis tissue using MPO antibody (66177-1-1g, Clone: 4C11F6) at dilution of 1:400 and Coralite®488-Conjugated Goat Anti-Mouse IgG(H+L) (SA00013-1). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunofluorescent analysis of (4% PFA) fixed HL-60 cells using MPO antibody (66177-1-Ig, Clone: 4C11F6) at dilution of 1:400 and Coralite®488-Conjugated Goat Anti-Mouse IgG(H+L) (SA00013-1).