For Research Use Only

Mpo Recombinant antibody

Catalog Number:84436-5-RR

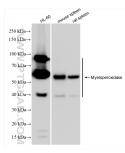


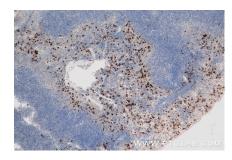
Basic Information	Catalog Number: 84436-5-RR	GenBank Accession Number: AAR99349	Purification Method: Protein A purfication					
	Size:	GeneID (NCBI):	CloneNo.:					
	1000 µg/ml	17523	241839C11					
	Source:	UNIPROT ID:	Recommended Dilutions:					
	Rabbit Isotype: IgG	P11247 Full Name: myeloperoxidase Calculated MW: 81KD Observed MW: 43 kDa, 59 kDa, 90 kDa	WB 1:5000-1:50000 IHC 1:125-1:500 IF-P 1:200-1:800					
				Applications	Tested Applications:	Positiv	e Controls:	
					WB, IHC, IF-P, ELISA	WB : HL	WB : HL-60 cells, mouse spleen tissue, rat spleen tissue	
					Species Specificity:	IHC : m	ouse spleen tissue,	
human, mouse, rat	IF-P : m	ouse spleen tissue,						
Note-IHC: suggested with TE buffer pH 9.0 antigen retrieval may with citrate buffer pH	; (*) Alternatively, / be performed							
Background Information	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.							
	isoloinis processo by ellering	tive splicing.						
Storage	Storage: Stora at -20°C. Stable for one s Storage Buffer: PBS with 0.02% sodium azide Aliquoting is unnecessary for	year after shipment. and 50% glycerol pH 7.3.						

For technical support and original validation data for this product please contact:T: 4006900926E: Proteintech-CN@ptglab.comW: ptgcn.com

This product is exclusively available under Proteintech Group brand and is not available to purchase from any other manufacturer.

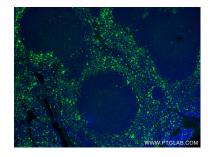
Selected Validation Data





Various lysates were subjected to SDS PAGE followed by western blot with 84436-5-RR (MPO antibody) at dilution of 1:10000 incubated at room temperature for 1.5 hours.

Immunohistochemical analysis of paraffinembedded mouse spleen tissue slide using 84436-5-RR (Mpo antibody) at dilution of 1:250 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunofluorescent analysis of (4% PFA) fixed paraffin-embedded mouse spleen tissue using Mpo antibody (84436-5-RR, Clone: 241839C11) at dilution of 1:400 and CoraLite@488-Conjugated Goat Anti-Rabbit IgG(H+L) (SA00013-2). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).