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## MPO Recombinant antibody

Catalog Number:84436-5-RR

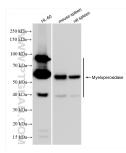


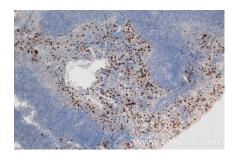
| Basic Information      | Catalog Number:<br>84436-5-RR   | GenBank Accession Number:<br>AAR99349   | Purification Method:<br>Protein A purfication  |
|------------------------|---|---|--|
|                        | Size:<br>100ul , Concentration: 1000 ug/ml by<br>Nanodrop;<br>Source:<br>Rabbit<br>Isotype:<br>IgG  | GeneID (NCBI):<br>17523<br>UNIPROT ID:<br>P11247<br>Full Name:<br>myeloperoxidase<br>Calculated MW:<br>81KD<br>Observed MW:<br>43 kDa, 59 kDa, 90 kDa   | CloneNo.:<br>241839C11<br>Recommended Dilutions:<br>WB 1:5000-1:50000<br>IHC 1:125-1:500<br>IF-P 1:200-1:800   |
| Applications           | Species Specificity:  |   | o cells, mouse spleen tissue, rat spleen tissue  |
|                        | human, mouse, rat<br>Note-IHC: suggested antigen ra   | IF-P · mou  | se spleen tissue,<br>se spleen tissue,   |
|                        | TE buffer pH 9.0; (*) Alternativ<br>retrieval may be performed w<br>buffer pH 6.0   |   |  |
| Background Information | retrieval may be performed w<br>buffer pH 6.0<br>The MPO gene encodes myeloperoxic<br>polymorphonuclear (PMN) leukocytes<br>intermediate with potent antimicrobi<br>protein of 90 kDa, which displays enz<br>kDa and a light chain of 13.5 kDa; the<br>heterotetramer composed of two ider<br>with molecular masses of 43-47 kDa<br>(PMID:12960244). The 24-kDa materia   | ith citrate<br>dase, a lysosomal hemoprotein loc<br>s and monocytes. In response to sti<br>al oxidizing abilities(PMID:17650<br>ymatic activity and undergoes pro<br>se subunits then dimerize into the<br>tical heavy chains and two identi<br>were formed by autocatalysis duri<br>al had a map identical to that of 12<br>fects in MPO are the cause of myel   | mulation, MPO is activated into a transient<br>507). The mRNA is translated into a single<br>teolytic maturation into a heavy chain of 59<br>mature tetramer and the mature MPO is a<br>cal light chains(PMID:12773517). Fragments   |
| Background Information | retrieval may be performed w<br>buffer pH 6.0<br>The MPO gene encodes myeloperoxic<br>polymorphonuclear (PMN) leukocytes<br>intermediate with potent antimicrobi<br>protein of 90 kDa, which displays enz<br>kDa and a light chain of 13.5 kDa; the<br>heterotetramer composed of two ider<br>with molecular masses of 43-47 kDa<br>(PMID:12960244). The 24-kDa materia<br>13.5 kDa subunit (PMID:3008892). Det | ith citrate<br>dase, a lysosomal hemoprotein loc<br>s and monocytes. In response to sti<br>al oxidizing abilities(PMID:176500<br>ymatic activity and undergoes pro<br>se subunits then dimerize into the<br>trical heavy chains and two identii<br>were formed by autocatalysis duri<br>al had a map identical to that of 12<br>fects in MPO are the cause of myel<br>cing.<br>er shipment.<br>% glycerol pH 7.3. | mulation, MPO is activated into a transient<br>507). The mRNA is translated into a single<br>teolytic maturation into a heavy chain of 59<br>mature tetramer and the mature MPO is a<br>cal light chains(PMID:12773517). Fragments<br>ng warming in sample buffer<br>5.5 kDa subunit and represents a dimer of the |

For technical support and original validation data for this product please contact:T: 1 (888) 4PTGLAB (1-888-478-4522) (toll freeE: proteintech@ptglab.comin USA), or 1(312) 455-8498 (outside USA)W: ptglab.com

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

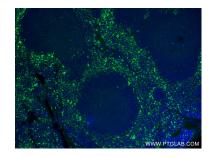
## Selected Validation Data



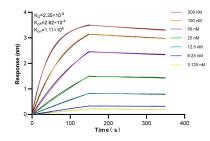


Various lysates were subjected to SDS PAGE followed by western blot with 84436-5-RR (MPO antibody) at dilution of 1:10000 incubated at room temperature for 1.5 hours.

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).



Biolayer interferometry (BLL) kinetic assays of 84436-5-RR against Mouse Mpo were performed. The affinity constant is 23.5 nM.