

For Research Use Only

Mouse MPO Recombinant antibody, PBS Only

Catalog Number: 84436-5-PBS



Basic Information

Catalog Number: 84436-5-PBS	GenBank Accession Number: AAR99349	Purification Method: Protein A purification
Size: 100ug , Concentration: 1 mg/ml by Nanodrop;	GeneID (NCBI): 17523	CloneNo.: 241839C11
Source: Rabbit	UNIPROT ID: P11247	
Isotype: IgG	Full Name: myeloperoxidase	
	Calculated MW: 81KD	
	Observed MW: 43 kDa, 59 kDa, 90 kDa	

Applications

Tested Applications:
WB, IHC, IF-P, Indirect ELISA

Species Specificity:
human, mouse, rat

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.

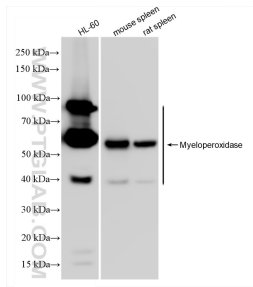
Storage

Storage:
Store at -80°C.
Storage Buffer:
PBS Only

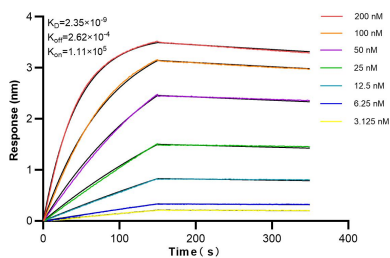
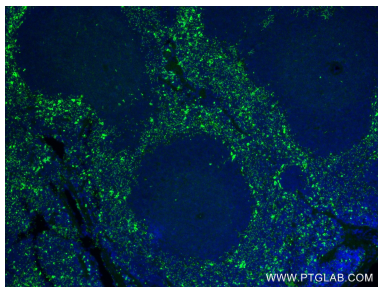
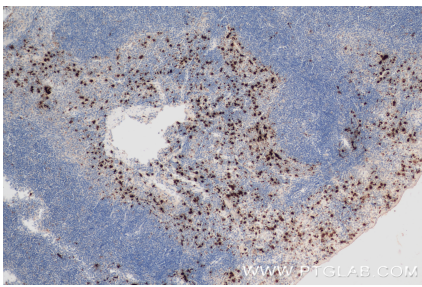
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Selected Validation Data



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. This data was developed using the same antibody clone with 84436-5-PBS in a different storage buffer formulation.



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