

For Research Use Only

MPO Polyclonal antibody, PBS Only

Catalog Number: 22225-1-PBS



Basic Information

Catalog Number:	22225-1-PBS	GenBank Accession Number:	BC130476	Purification Method:
Size:	100ug, Concentration: 1 mg/ml by Nanodrop;	GenID (NCBI):	4353	Antigen affinity purification
Source:	Rabbit	UNIPROT ID:	P05164	
Isotype:	IgG	Full Name:	myeloperoxidase	
Immunogen Catalog Number:	AG17564	Calculated MW:	745 aa, 84 kDa	
		Observed MW:	59 kDa	

Applications

Tested Applications:
WB, IHC, IF-P, IP, 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. This antibody is specific to MPO.

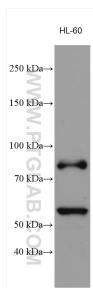
Storage

Storage:
Store at -80°C.
Storage Buffer:
PBS only, pH7.3

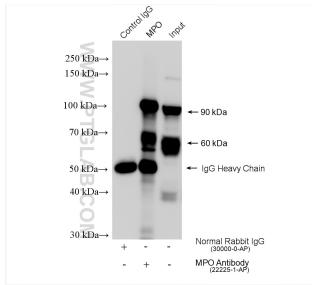
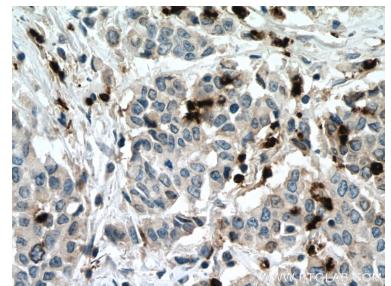
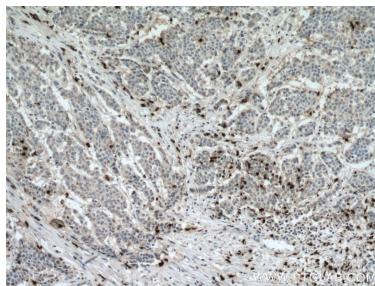
For technical support and original validation data for this product please contact:
T: 1(888) 4PTGLAB (1-888-478-4522) (toll free
in USA), or 1(312) 455-8498 (outside USA) E: proteintech@ptglab.com
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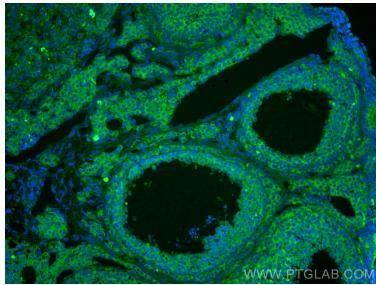
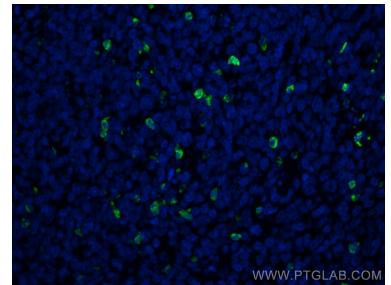
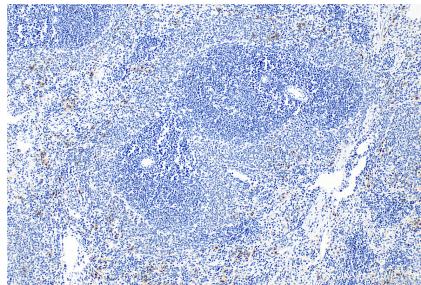
Selected Validation Data



HL-60 cells were subjected to SDS PAGE followed by western blot with 22225-1-AP (MPO antibody) at dilution of 1:3000 incubated at room temperature for 1.5 hours. This data was developed using the same antibody clone with 22225-1-PBS in a different storage buffer formulation.



IP result of anti-MPO (IP:22225-1-AP, 4ug; Detection:22225-1-AP 1:4000) with HL-60 cells lysate 1720 ug. This data was developed using the same antibody clone with 22225-1-PBS in a different storage buffer formulation.



Immunofluorescent analysis of (4% PFA) fixed paraffin-embedded mouse ovary tissue using MPO antibody (22225-1-AP) at dilution of 1:200 and CoraLite® 488-Conjugated Goat Anti-Rabbit IgG(H+L) (SA00013-2). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0). This data was developed using the same antibody clone with 22225-1-PBS in a different storage buffer formulation.