For Research Use Only

MPO Monoclonal antibody, PBS Only

Catalog Number:66177-1-PBS Featured Product

proteintech®
Antibodies | ELISA kits | Proteins
www.ptglab.com

Basic Information

Catalog Number:
66177-1-PBS

Concentration:
1000 ug/ml

Source:
Mouse

Isotype:
IgA

Immunogen Catalog Number:
AG17564

GenBank Accession Number:
BC130476

GeneID (NCBI):
4353

UNIPROT ID:
P05164

Full Name:
myeloperoxidase

Calculated MW:
745 aa, 84 kDa

Observed MW:
90 kDa

Purification Method:
Caprylic acid/ammonium sulfate precipitation

CloneNo.:
4C11F6

Applications

Tested Applications:
WB, IHC, IF/ICC, IF-P, FC (Intra), Indirect ELISA

Species Specificity:
human, rat

Background Information

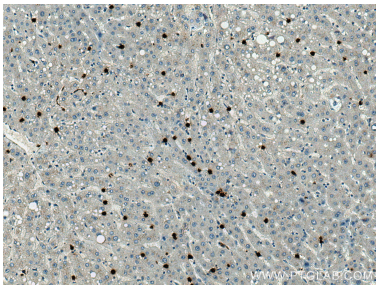
The MPO gene encodes myeloperoxidase, a lysosomal hemoprotein located in the azurophilic granules of polymorphonuclear (PMN) leukocytes and monocytes. In response to stimulation, MPO is activated into a transient intermediate with potent antimicrobial oxidizing abilities(PMID:17650507). The mRNA is translated 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

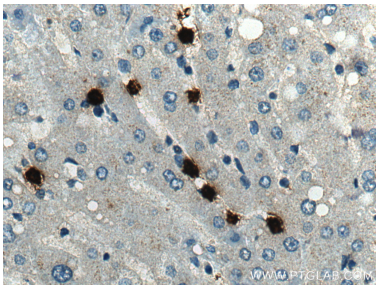
Storage:
Store at -80°C.
The product is shipped with ice packs. Upon receipt, store it immediately at -80°C
Storage Buffer:
PBS Only

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

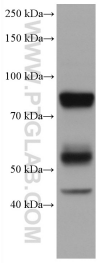
Selected Validation Data



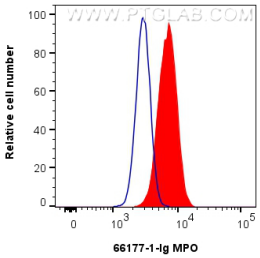
Immunohistochemical analysis of paraffin-embedded human liver tissue slide using 66177-1-Ig (MPO antibody) at dilution of 1:800 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0). This data was developed using the same antibody clone with 66177-1-PBS in a different storage buffer formulation.



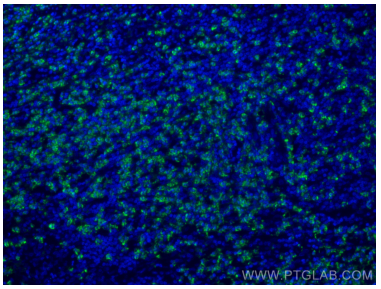
Immunohistochemical analysis of paraffin-embedded human liver tissue slide using 66177-1-Ig (MPO antibody) at dilution of 1:800 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0). This data was developed using the same antibody clone with 66177-1-PBS in a different storage buffer formulation.



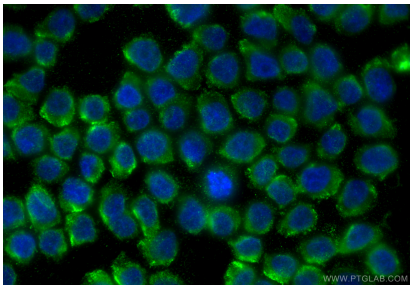
HL-60 cells were subjected to SDS PAGE followed by western blot with 66177-1-Ig (MPO antibody) at dilution of 1:4000 incubated at room temperature for 1.5 hours. This data was developed using the same antibody clone with 66177-1-PBS in a different storage buffer formulation.



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). This data was developed using the same antibody clone with 66177-1-PBS in a different storage buffer formulation.



Immunofluorescent analysis of (4% PFA) fixed paraffin-embedded human appendicitis tissue 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). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0). This data was developed using the same antibody clone with 66177-1-PBS in a different storage buffer formulation.



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). This data was developed using the same antibody clone with 66177-1-PBS in a different storage buffer formulation.