

For Research Use Only

CoraLite® Plus 488-conjugated MPO Monoclonal antibody



Catalog Number: CL488-66177

Featured Product

Basic Information

Catalog Number: CL488-66177	GenBank Accession Number: BC130476	Purification Method: Thiophilic affinity chromatograph
Size: 100ul , Concentration: 1000 µg/ml by Nanodrop;	GeneID (NCBI): 4353	CloneNo.: 4C11F6
Source: Mouse	Full Name: myeloperoxidase	Recommended Dilutions: IF 1:50-1:500
Isotype: IgA	Calculated MW: 745 aa, 84 kDa	Excitation/Emission maxima wavelengths: 493 nm / 522 nm
Immunogen Catalog Number: AG17564	Observed MW: 90 kDa	

Applications

Tested Applications:
FC, IF

Species Specificity:
human, rat

Positive Controls:

IF : human tonsillitis tissue,

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). 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 -20°C. Avoid exposure to light. Stable for one year after shipment.

Storage Buffer:

PBS with 50% Glycerol, 0.05% Proclin300, 0.5% BSA, pH 7.3.

Aliquoting is unnecessary for -20°C storage

*** 20ul sizes contain 0.1% BSA

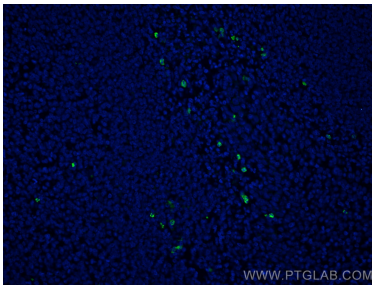
For technical support and original validation data for this product please contact:

T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free
in USA), or 1(312) 455-8498 (outside USA)

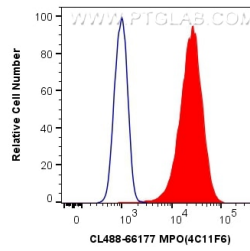
E: proteintech@ptglab.com
W: ptglab.com

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

Selected Validation Data



Immunofluorescent analysis of (4% PFA) fixed human tonsillitis tissue using CoraLite® Plus 488 MPO antibody (CL488-66177, Clone: 4C11F6) at dilution of 1:200.



1×10^6 HL-60 cells were intracellularly stained with 0.8 μ g CoraLite® Plus 488 Anti-Human MPO (CL488-66177, Clone:4C11F6) (red), or 0.8 μ g Isotype Control. Cells were fixed with 4% PFA and permeabilized with Flow Cytometry Perm Buffer (PF00011-C).