

# Myeloperoxidase Monoclonal Antibody (2C7)

## Product Details

|                    |  |
|--------------------|--|
| Size               | 200 µg   |
| Species Reactivity | Human  |
| Host/Isotype       | Mouse / IgG1   |
| Class              | Monoclonal   |
| Type               | Antibody   |
| Clone              | 2C7  |
| Conjugate          | Unconjugated   |
| Immunogen          | Human Myeloperoxidase.   |
| Form               | Liquid   |
| Concentration      | 1 mg/mL  |
| Purification       | Protein A  |
| Storage buffer     | PBS, pH 7.4  |
| Contains           | 0.09% sodium azide   |
| Storage conditions | Store at 4°C short term. For long term storage, store at -20°C, avoiding freeze/thaw cycles. |
| RRID               | AB_934783  |

| Applications                              | Tested Dilution         | Publications  |
|---|-------------------------|---------------|
| Western Blot (WB)                         | Non-reducing conditions | -             |
| Immunohistochemistry (Paraffin) (IHC (P)) | 1:500-1:1,000           | -             |
| Immunohistochemistry (Frozen) (IHC (F))   | 1:1,000-1:5,000         | -             |
| Immunocytochemistry (ICC/IF)              | 1:100                   | 1 Publication |
| Flow Cytometry (Flow)                     | 1:50-1:100              | -             |
| ELISA (ELISA)                             | Assay-dependent         | -             |

## Product Specific Information

This antibody does not react with rat.

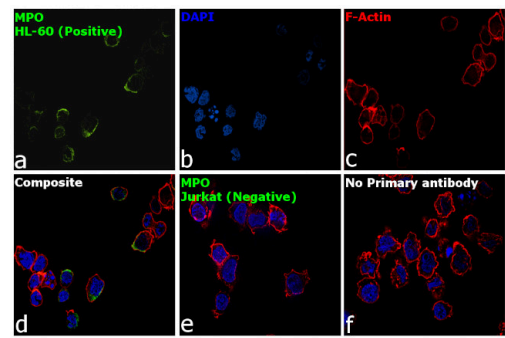
Non-reducing conditions are recommended for Western blot applications. A suggested positive control for immunohistochemical applications is bone marrow.

Mouse anti Human myeloperoxidase antibody, clone 2C7 recognizes human myeloperoxidase (MPO).

Product Images For Myeloperoxidase Monoclonal Antibody (2C7)

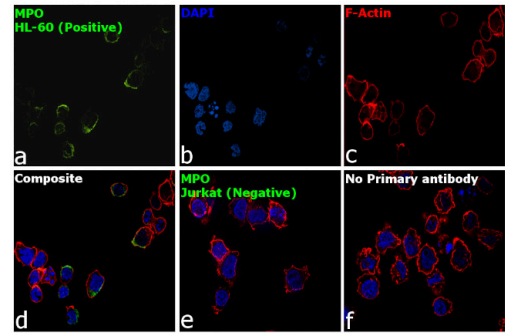
Myeloperoxidase Antibody (MA1-80878) in ICC/IF

Immunofluorescence analysis of MPO was performed using HL-60 and Jurkat cells. The cells were fixed with 4% paraformaldehyde for 10 minutes, permeabilized with 0.1% Triton™ X-100 for 15 minutes, and blocked with 2% BSA for 1 hour at room temperature. HL-60 and Jurkat cells were labeled with Myeloperoxidase Monoclonal Antibody (2C7) (Product # MA1-80878) at 1:100 dilution in 0.1% BSA, incubated at 4 degree Celsius overnight and then labeled with Goat anti-Mouse IgG (H+L), Superclonal™ Recombinant Secondary Antibody, Alexa Fluor 488 conjugate (Product # A28175) at a dilution of 1:2000 for 45 minutes at room temperature (Panel a: green). Nuclei (Panel b: blue) were stained with ProLong™ Diamond Antifade Mountant with DAPI (Product # P36962). F-actin (Panel c: red) was stained with Rhodamine Phalloidin (Product # R415). Panel d represents the merged image of HL-60 showing membranous localization. Panel e represents the merged image of Jurkat cells showing no expression for MPO protein. Panel f represents control cells with no primary antibody to assess background. The images were captured at 60X magnification.



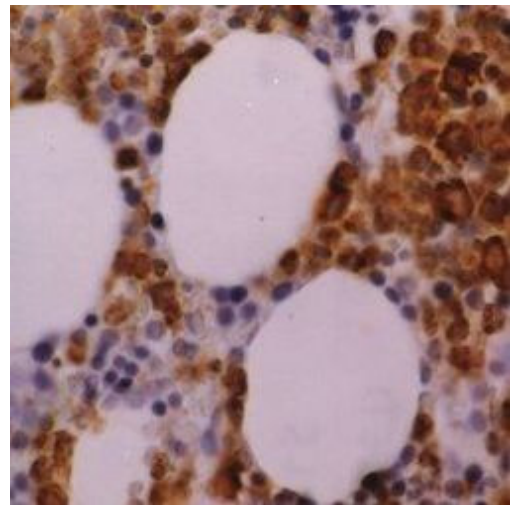
Myeloperoxidase Antibody (MA1-80878)

Antibody specificity was demonstrated by detection of differential basal expression of the target across cell lines tested owing to their inherent genetic constitution. Relative expression of MPO was observed in HL-60 cells with membranous localization, in comparison to Jurkat using Anti-Myeloperoxidase Monoclonal Antibody (2C7) (Product # MA1-80878) in Immunofluorescence. {RE}



Myeloperoxidase Antibody (MA1-80878) in IHC (P)

Immunohistochemical staining of human bone marrow. Formalin fixed, paraffin processed tissue using a Myeloperoxidase monoclonal antibody (Product # MA1-80878)



View more figures on [thermofisher.com](https://thermofisher.com)

Immunocytochemistry (1)

|   |              |
|---|--------------|
| iScience  | Year<br>2022 |
| <b><i>Moraxella catarrhalis</i> evades neutrophil oxidative stress responses providing a safer niche for nontypeable <i>Haemophilus influenzae</i>.</b>       |              |
| "Published figure using Myeloperoxidase monoclonal antibody (Product # MA1-80878) in Immunocytochemistry"   |              |
| Authors: Nicchi S,Giusti F,Carello S,Utrio Lanfaloni S,Tavarini S,Frigimelica E,Ferlenghi I,Rossi Paccani S,Merola M, Delany I,Scarlato V,Maione D,Brettoni C |              |

For Research Use Only. Not for use in diagnostic procedures. Not for resale without express authorization. Products are warranted to operate or perform substantially in conformance with published Product specifications in effect at the time of sale, as set forth in the Production documentation, specifications and/or accompanying package inserts ("Documentation"). No claim of suitability for use in applications regulated by FDA is made. The warranty provided herein is valid only when used by properly trained individuals. Unless otherwise stated in the Documentation, this warranty is limited to one year from date of shipment when the Product is subjected to normal, proper and intended usage. This warranty does not extend to anyone other than the Buyer. Any model or sample furnished to Buyer is merely illustrative of the general type and quality of goods and does not represent that any Product will conform to such model or sample. NO OTHER WARRANTIES, EXPRESS OR IMPLIED, ARE GRANTED INCLUDING WITHOUT LIMITATION, IMPLIED WARRANTIES OF MERCHANTABILITY, FITNESS FOR ANY PARTICULAR PURPOSE, OR NON INFRINGEMENT. BUYER'S EXCLUSIVE REMEDY FOR NON-CONFORMING PRODUCTS DURING THE WARRANTY PERIOD IS LIMITED TO REPAIR, REPLACEMENT OF OR REFUND FOR THE NON-CONFORMING PRODUCT(S) AT SELLER'S SOLE OPTION. THERE IS NO OBLIGATION TO REPAIR, REPLACE OR REFUND FOR PRODUCTS AS THE RESULT OF (I) ACCIDENT, DISASTER OR EVENT OF FORCE MAJEURE, (II) MISUSE, FAULT OR NEGLIGENCE OF OR BY BUYER, (III) USE OF THE PRODUCTS IN A MANNER FOR WHICH THEY WERE NOT DESIGNED, OR (IV) IMPROPER STORAGE AND HANDLING OF THE PRODUCTS. Unless otherwise expressly stated on the Product or in the documentation accompanying the Product, the Product is intended for research only and is not to be used for any other purpose, including without limitation, unauthorized commercial uses, in vitro diagnostic uses, ex vivo or in vivo therapeutic uses, or any type of consumption by or application to human or animals.