

# 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.

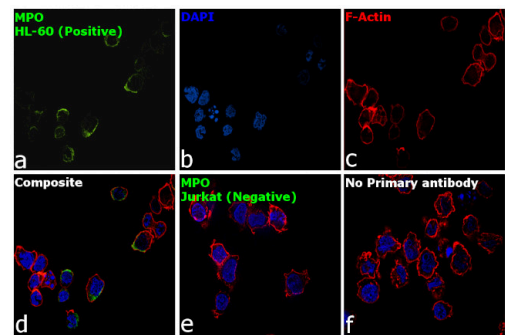
Non-reducing conditions are recommended for Western blot applications. A suggested positive control for immunohistochemical applications is bone marrow.

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

Product Images For Myeloperoxidase Monoclonal Antibody (2C7)

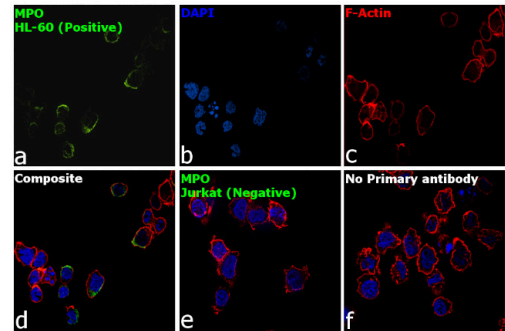
Myeloperoxidase Antibody (MA1-80878) in ICC/IF

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.



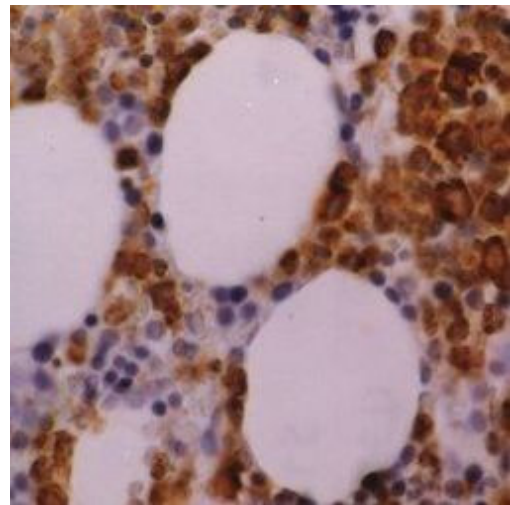
Myeloperoxidase Antibody (MA1-80878)

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)



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Immunocytochemistry (1)

iScience	Year 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	

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