

# Product Datasheet

## Myeloperoxidase/MPO Antibody (2C7) - BSA Free NB100-64803

Unit Size: 0.1 mg

Store at 4C short term. Aliquot and store at -20C long term. Avoid freeze-thaw cycles.

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**NB100-64803**

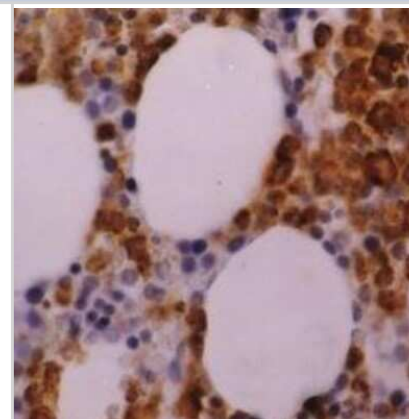
Myeloperoxidase/MPO Antibody (2C7) - BSA Free

Product Information	
Unit Size	0.1 mg
Concentration	Please see the vial label for concentration. If unlisted please contact technical services.
Storage	Store at 4C short term. Aliquot and store at -20C long term. Avoid freeze-thaw cycles.
Clonality	Monoclonal
Clone	2C7
Preservative	0.09% Sodium Azide
Isotype	IgG1
Purity	Protein A purified
Buffer	PBS
Product Description	
Host	Mouse
Gene ID	4353
Gene Symbol	MPO
Species	Human
Reactivity Notes	Predicted cross-reactivities: Dog
Specificity/Sensitivity	NB100-64803 recognizes human myeloperoxidase (MPO). MPO is an important component of azurophilic granules in neutrophils, being involved in microbicidal processes. The protein is a multimer of 2 heavy chains (55kD) and two light chains (15kD), the heavy chains being linked by a disulphide bond. NB100-64803 recognizes native MPO in Western blots, and the heavy chain following boiling of the sample. The antibody also recognizes recombinant MPO in Western blots and weakly in ELISA. The antibody may be of value in the study of myeloid cells and myeloid leukaemias by flow cytometry following cell permeabilisation.
Immunogen	Human myeloperoxidase
Product Application Details	
Applications	Western Blot, ELISA, Flow Cytometry, Immunohistochemistry, Immunohistochemistry-Frozen, Immunohistochemistry-Paraffin
Recommended Dilutions	Western Blot 1:100-1:2000, Flow Cytometry, ELISA 1:100-1:2000, Immunohistochemistry 1:10-1:500, Immunohistochemistry-Paraffin 1:500-1:1000, Immunohistochemistry-Frozen 1:1000-1:5000
Application Notes	Membrane permeabilisation is required for Flow Cytometry. 2C7 recognises myeloperoxidase under nonreducing conditions.

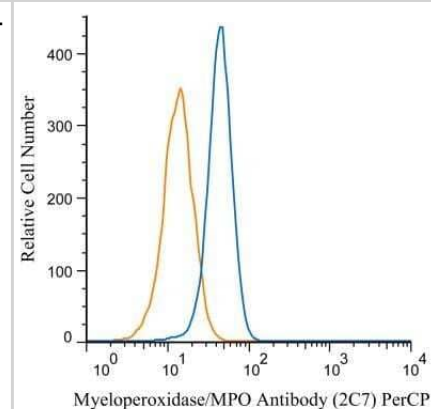


## Images

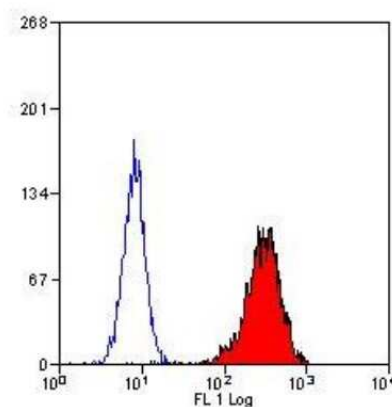
Immunohistochemistry-Paraffin: Myeloperoxidase/MPO Antibody (2C7) [NB100-64803] - Mouse anti Human Myeloperoxidase.



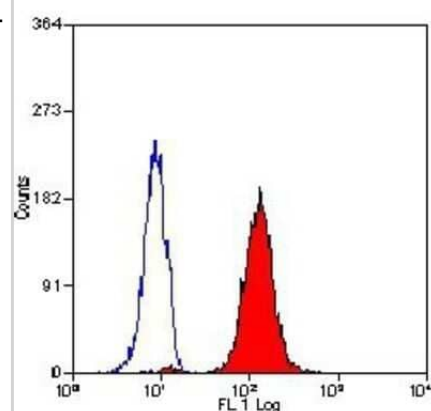
Flow Cytometry: Myeloperoxidase/MPO Antibody (2C7) [NB100-64803] - An intracellular stain was performed on Jurkat cells with Myeloperoxidase antibody (2C7) NB100-64803PCP (blue) and a matched isotype control NBP2-27287PCP (orange). Cells were fixed with 4% PFA and then permeabilized with 0.1% saponin. Cells were incubated in an antibody dilution of 5 ug/mL for 30 minutes at room temperature. Both antibodies were conjugated to Peridinin-Chlorophyll-Protein complex.



Flow Cytometry: Myeloperoxidase/MPO Antibody (2C7) [NB100-64803] - Staining of human peripheral blood granulocytes with Mouse anti Human myeloperoxidase following permeabilisation with Leucoperm.



Flow Cytometry: Myeloperoxidase/MPO Antibody (2C7) [NB100-64803] - Analysis using the FITC conjugate of NB100-64803. Staining of permeabilised human peripheral blood granulocytes.



## Publications

Arriaga-Pizano L, Ramirez-Ramirez D, Prieto-Chavez J et al. [Reporte de la Primera Reunión Nacional de Consenso para la Inmunofenotipificación de Leucemias Agudas] Gaceta Médica de México 2019-02-26 [PMID: 30799452]

Cao Z, Cheng G Recombinant Myeloperoxidase as a New Class of Antimicrobial Agents Microbiology spectrum 2022 -01-12 [PMID: 35019674] (WB, Human)

Li S, Lin Q, Shao X, et al. IRF5 genetic risk variants drive myeloid-specific IRF5 hyper-activation and pre-symptomatic SLE JCI Insight 2019-12-26 [PMID: 31877114] (FLOW, Human)





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### **Products Related to NB100-64803**

HAF007	Goat anti-Mouse IgG Secondary Antibody [HRP]
NB720-B	Rabbit anti-Mouse IgG (H+L) Secondary Antibody [Biotin]
NBP1-97005-0.5mg	Mouse IgG1 Isotype Control (MG1)
NB100-64803AF647	Myeloperoxidase/MPO Antibody (2C7) [Alexa Fluor® 647]

### **Limitations**

This product is for research use only and is not approved for use in humans or in clinical diagnosis. Primary Antibodies are guaranteed for 1 year from date of receipt.

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