

Myeloperoxidase (MPO) Rabbit mAb

Catalog No.: A22900 **Recombinant**

Basic Information

Observed MW

60kDa/80-90kDa/

Calculated MW

84kDa

Category

Primary antibody

Applications

WB,IHC-P,IF/ICC,ELISA

Cross-Reactivity

Human, Mouse, Rat

CloneNo number

ARC3177

Background

Myeloperoxidase (MPO) is a heme protein synthesized during myeloid differentiation that constitutes the major component of neutrophil azurophilic granules. Produced as a single chain precursor, myeloperoxidase is subsequently cleaved into a light and heavy chain. The mature myeloperoxidase is a tetramer composed of 2 light chains and 2 heavy chains. This enzyme produces hypohalous acids central to the microbicidal activity of neutrophils.

Recommended Dilutions

WB 1:3000 - 1:10000

IHC-P 1:500 - 1:1000

IF/ICC 1:50 - 1:200

ELISA Recommended starting concentration is 1 µg/mL. Please optimize the concentration based on your specific assay requirements.

Immunogen Information

Gene ID

4353

Swiss Prot

P05164

Immunogen

Recombinant protein

Synonyms

MPO; myeloperoxidase; Myeloperoxidase (MPO)

Contact

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Product Information

Source

Rabbit

Isotype

IgG

Purification

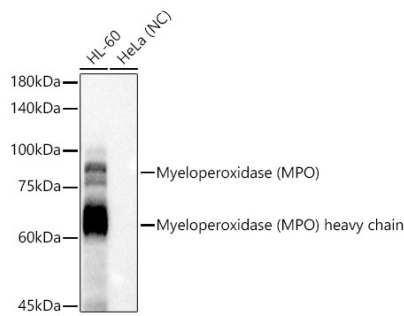
Affinity purification

Storage

Store at -20°C. Avoid freeze / thaw cycles.

Buffer: PBS with 0.01% Sodium azide,0.05% BSA,40% glycerol,pH7.2.

Validation Data



Western blot analysis of lysates from HL-60 cells using Myeloperoxidase (MPO) Rabbit mAb (A22900) at 1:10000 dilution.

Secondary antibody: HRP-conjugated Goat anti-Rabbit IgG (H+L) (AS014) at 1:10000 dilution.

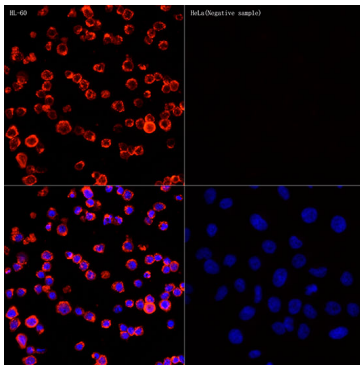
Lysates/proteins: 25µg per lane.

Blocking buffer: 3% nonfat dry milk in TBST.

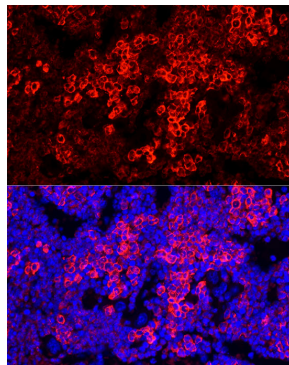
Detection: ECL Basic Kit (RM00020).

Negative control (NC): HeLa

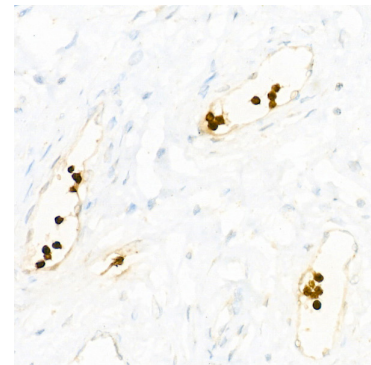
Exposure time: 30s.



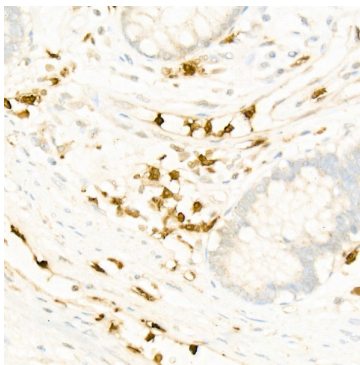
Immunofluorescence analysis of HL-60 and HeLa cells using Myeloperoxidase (MPO) Rabbit mAb (A22900) at a dilution of 1:100 (40x lens). Secondary antibody: Cy3 Goat anti-Rabbit IgG (H+L) (AS007) at 1:500 dilution. Blue: DAPI for nuclear staining.



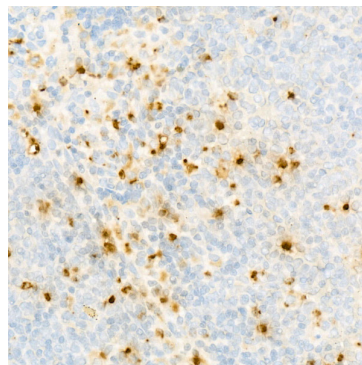
Immunofluorescence analysis of paraffin-embedded mouse bone marrow using Myeloperoxidase (MPO) Rabbit mAb (A22900) at a dilution of 1:100 (40x lens). Secondary antibody: Cy3 Goat anti-Rabbit IgG (H+L) (AS007) at 1:500 dilution. Blue: DAPI for nuclear staining. Perform microwave antigen retrieval with 0.01 M citrate buffer (pH 6.0) prior to IF staining.



Immunohistochemistry analysis of paraffin-embedded Human cervix cancer tissue using Myeloperoxidase (MPO) Rabbit mAb (A22900) at a dilution of 1:1000 (40x lens). High pressure antigen retrieval performed with 0.01M Citrate Buffer (pH 6.0) prior to IHC staining.



Immunohistochemistry analysis of paraffin-embedded Human colon carcinoma tissue using Myeloperoxidase (MPO) Rabbit mAb (A22900) at a dilution of 1:1000 (40x lens). High pressure antigen retrieval performed with 0.01M Citrate Buffer (pH 6.0) prior to IHC staining.



Immunohistochemistry analysis of paraffin-embedded Rat spleen tissue using Myeloperoxidase (MPO) Rabbit mAb (A22900) at a dilution of 1:1000 (40x lens). High pressure antigen retrieval performed with 0.01M Citrate Buffer (pH 6.0) prior to IHC staining.