Product Information Sheet

Polyclonal Anti-Myeloperoxidase, *MPO*

Catalogue No. PA1054

Lot No. 08A12

Ig type: rabbit IgG

Size: 100µg/vial

Specificity

Human, mouse, rat.

No cross reactivity with other proteins.

Recommended application

Western blot

Immunohistochemistry(P)

Immunocytochemistry

Immunogen

A synthetic peptide corresponding to a sequence mapping at the C-terminal of human MPO, identical to the related mouse and rat sequence.

Purity

Immunogen affinity purified.

Application

Western blot

At 2µg/ml with the appropriate system to detect MPO in cells and tissues.

Immunohistochemistry(P)

At 0.5-1µg/ml to detect MPO in formalin fixed and paraffin embedded tissues.

Immunocytochemistry Suitable

Other applications have not been tested.

Optimal dilutions should be determined by end user.

Contents

Each vial contains 5mg BSA, 0.9mg NaCl, 0.2mg Na_2HPO_4, 0.05mg Thimerosal, 0.05mg NaN_3.

Reconstitution

0.2ml of distilled water will yield a concentration of 500µg/ml.

To reorder contact us at:

Antagene, Inc.

Toll Free: 1(866)964-2589

email: Info@antageneinc.com

Storage

At -20˚C for one year. After reconstitution, at 4˚C for one month. It can also be aliquotted and stored frozen at -20˚C for longer time.

BACKGROUND

Myeloperoxidase (MPO) is a mammalian phagocyte hemoprotein thought to primarily mediate host defense reactions. It is abundantly expressed in neutrophils and secreted during their activation. Myeloperoxidase is part of the host defense system of human polymorphonuclear leukocytes, responsible for microbicidal activity against a wide range of organisms. It is located in the nucleus as well as in the cytoplasm. Intranuclear MPO may help to protect DNA against damage resulting from oxygen radicals produced during myeloid cell maturation and function.

REFERENCE

1. Klebanoff, S. J. : Myeloperoxidase. *Proc. Assoc. Am. Phys.* 111: 383-389, 1999.

2. Murao, S.-I.; Stevens, F. J.; Ito, A.; Huberman, E. : Myeloperoxidase: a myeloid cell nuclear antigen with DNA-binding properties. *Proc. Nat. Acad. Sci.* 85: 1232-1236, 1988.

3. Nauseef, W. M.; Olsson, I.; Arnljots, K. : Biosynthesis and processing of myeloperoxidase--a marker for myeloid cell differentiation. *Europ. J. Haemat.* 40: 97-110, 1988.