



PRODUCT DATA SHEET

Product: Anti-Myeloperoxidase, Clone 8F4

Cat. No.: MC-194 (1 ml)

Background:

Myeloperoxidase (MPO) is a glycoprotein with an alpha2beta2 heteromultimer expressed in all cells of the myeloid lineage. MPO is abundantly present in azurophilic granules of polymorphonuclear neutrophils. It is an important enzyme used during phagocytic lysis of engulfed foreign particles which takes part in the defense of the organism through production of hypochlorous acid (HOCl), a potent oxidant. MPO is rapidly released by activated polymorphonuclear neutrophils. Involvement of MPO has been described in numerous diseases such as atherosclerosis, lung cancer, Alzheimer's disease and multiple sclerosis. Autoimmune antibodies to MPO are involved in Wegeners disease. Since the discovery of MPO deficiency, initially regarded as rare and restricted to patients suffering from severe infections, MPO has attracted more clinical attention. In experimental studies antibodies to MPO can be used for various purposes ranging from flow cytometric analysis to detection of polymorphonuclear neutrophils in tissue sections.

Specificity:

Monoclonal antibody 8F4 reacts with MPO.

Species Reactivity: Human and rat. Others not tested

Ig Isotype: Mouse IgG₁

Format:

1 ml containing 100 µg IgG in PBS with 0.1% BSA. The antibody solution was filtered through a 0.2 micron filter.

Storage and Stability:

Store at 4 °C.

Applications and Suggested Dilutions:

- Flow Cytometry: The typical starting dilution is 1:10.
- Immunohistochemistry: (Frozen sections)-The typical starting dilution is 1:10.

The optimal dilution for a specific application should be determined by the researcher.

Limitations:

For *in vitro* research use only. Not for use in diagnostics or in humans.

Warranty:

No warranties, expressed or implied, are made regarding the use of this product. **KAMIYA BIOMEDICAL COMPANY** is not liable for any damage, personal injury, or economic loss caused by this product.