

## Product datasheet for SM1475F

## OriGene Technologies, Inc.

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## Myeloperoxidase (MPO) Mouse Monoclonal Antibody [Clone ID: 2C7]

**Product data:** 

**Product Type:** Primary Antibodies

Clone Name: 2C7
Applications: FC

**Recommended Dilution:** Flow Cytometry: Use 10 μl of Neat-1/10 diluted antibody to label 16 cells in 100 μl.

Membrane permeabilisation is required for this application.

Reactivity: Human
Host: Mouse
Isotype: IgG1

Clonality: Monoclonal

**Immunogen:** Human myeloperoxidase.

Spleen cells from immunised mice were fused with cells of the mouse X63 AG8-653 myeloma

cell line.

**Specificity:** This antibody recognises myeloperoxidase (MPO), an important component of azurophilic

granules in neutrophils. **Negative Species:** Rat.

**Formulation:** PBS, pH 7.4

Label: FITC

State: Liquid purified IgG fraction

Stabilizer: 1% BSA

Preservative: 0.09% Sodium Azide

Label: Fluorescein Isothiocyanate Isomer 1

**Concentration:** lot specific

**Purification:** Affinity Chromatography on Protein G

Conjugation: FITC

**Storage:** Store undiluted at 2-8°C for one month or (in aliquots) at -20°C for longer.

This product is photosensitive and should be protected from light.

Avoid repeated freezing and thawing.

**Stability:** Shelf life: one year from despatch.





**Gene Name:** myeloperoxidase

Database Link: Entrez Gene 4353 Human

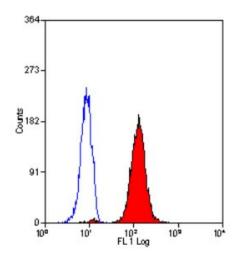
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**Background:** Human myeloperoxidase (MPO) is a dimeric protein composed of two heavy subunits (53

kDa) and two light subunits (15 kDa). Each MPO molecule contains two prosthetic porphyrins which play an important role in the catalytic cycle. Molecular weights for MPO isoforms from pools of normal human samples range from 114,000 to 140,000 daltons reflecting a heterogeneous mixture of isoforms when assayed under non-reducing conditions of SDS-PAGE. Often MPO from a single donor will yield a homogenous preparation reflecting a single isoform. The carbohydrate component of MPO, consisting of mannose, glucose and N-acetylglucosamine residues is 2.5%. MPO is inhibited by azide and other compounds. MPO is stored in primary granules of neutrophils and serves as a bactericidal agent in that MPO catalyzes the production of hypochlorous acid (HOCl), a powerful oxidant. HOCl is derived from chloride ion (Cl-) and hydrogen peroxide (H2O2). In a number of inflammatory situations, MPO is released into the extracellular matrix where its measurement can be used

Synonyms: MPO

## **Product images:**



as an indication of neutrophil activation.

Staining of permeabilised human peripheral blood granulocytes with Mouse anti Human Myeloperoxidase Antibody -FITC