



# Myeloperoxidase (MPO) Fluorometric Activity Assay Kit

## Product Information

### Cat

Kit-2293

### Cat.No.

Kit-2293

## Product Overview

Myeloperoxidase (MPO) is a peroxidase enzyme (EC 1.11.1.7) most abundantly present in neutrophil granulocytes. It is a green hemoprotein found in neutrophils and monocytes that catalyzes the reaction of hydrogen peroxide and halide ions to form cytotoxic acids and other intermediates that play a role in the oxygen-dependent killing of tumor cells and microorganisms. Its heme pigment causes the green color in secretions rich in neutrophils, such as pus and some forms of mucus. Furthermore, it can oxidize tyrosine to a tyrosyl radical using hydrogen peroxide as an oxidizing agent. In MPO Assay Kit, MPO catalyzes the production of NaClO from H<sub>2</sub>O<sub>2</sub> and NaCl. Subsequently, NaClO will react stoichiometrically with Aminophenyl fluorescein (APF) to generate fluorescein, which has a strong fluorescence and can be detected at Ex/Em = 485/525 nm. The kit provides a rapid, simple, sensitive, and reliable test suitable as a high throughput assay of MPO activity. This kit can be used to detect MPO activity as low as 0.5  $\mu$ U per well.

## Storage

-20°C

## Shipping

Gel Pack

## Size

100 assays

## Kit Components

Assay Buffer; MPO Substrate Stock; MPO Probe; Fluorescein Standard (1 mM); MPO Positive Control

## Target Species



CREATIVE **BIOMART**<sup>®</sup>  
Assay Kit

## Myeloperoxidase (MPO) Fluorometric Activity Assay Kit

Mammalian

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**Detection method** Fluorescence (Ex/Em = 485/525 nm)

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### Features & Benefits

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Simple procedure;

Fast and convenient;

Sensitive assays for measuring MPO as low as 0.5  $\mu$ U per well

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