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## Produktinformation



Forschungsprodukte & Biochemikalien



Zellkultur & Verbrauchsmaterial



Diagnostik & molekulare Diagnostik



Laborgeräte & Service

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### Lieferung & Zahlungsart

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### Zuschläge

- Mindermengenzuschlag
- Trockeneiszuschlag
- Gefahrgutzuschlag
- Expressversand

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## FITC Mouse Anti-Human Myeloperoxidase (MPO) Monoclonal Antibody

CLX212F

**Clone:** MPO421-8B2

**Isotype:** Mouse IgG1

**Specificity:** The mouse monoclonal antibody MPO421-8B2 recognizes human myeloperoxidase, a heme protein present in myeloblasts, neutrophils and monocytes. It is a marker of acute myelogenous leukemias and acute lymphoblastic leukemias.

**Immunogen:** Human myeloperoxidase

**Species Reactivity:** Human

**Preparation:** The purified antibody is conjugated with Fluorescein isothiocyanate (FITC) under optimum conditions. The reagent is free of unconjugated FITC and adjusted for direct use. No reconstitution is necessary.

**Storage Buffer:** The reagent is provided in stabilizing phosphate buffered saline (PBS) solution containing 15mM sodium azide.

**Storage / Stability:** Store in the dark at 2-8°C. Do not freeze. Avoid prolonged exposure to light. Do not use after expiration date stamped on vial label.

**Usage:** The reagent is designed for Flow Cytometry analysis of human blood cells using 4 µl reagent / 100 µl of whole blood or 10<sup>6</sup> cells in a suspension.

**Background:** Myeloperoxidase (MPO) is a heme enzyme that is localized in azurophilic (primary) granules of myeloid cells and its synthesis occurs at an early stage of differentiation. The mature myeloperoxidase is a tetramer composed of two light (12 kDa) and two heavy (60 kDa) chains. This enzyme uses hydrogen peroxide to oxidize numerous substrates, including serotonin, melatonin or chloride, to produce reactive free radicals that contribute to immune reactions of myeloid cells against pathogens. Myeloperoxidase functions not only in host defense by mediating efficient microbial killing but also can contribute to progressive tissue damage in chronic inflammatory states such as atherosclerosis or acute pancreatitis.

**Laboratory Reagent For Research Use Only**

JK 03/20/19

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