

## Product Datasheet

# COMBI IC Reagent: Mouse Myeloperoxidase-C2 (FITC) and Mouse Lactoferrin (PE) Antibody (orb1972426)

<b>Catalog Number</b>	orb1972426
<b>Category</b>	Antibodies
<b>Description</b>	COMBI IC Reagent: Mouse Myeloperoxidase-C2 (FITC) and Mouse Lactoferrin (PE) Antibody
<b>Clonality</b>	Monoclonal
<b>Species/Host</b>	Mouse
<b>Isotype</b>	IgG1
<b>Conjugation</b>	FITC/PE
<b>Reactivity</b>	Human
<b>Form/Appearance</b>	PBS pH 7.2, 1% rAlbumin, 0.05% NaN <sub>3</sub>
<b>Tested applications</b>	FC

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**Specificity**

Antibody MPO-C2 (clone 8E6) reacts with human myeloperoxidase (MPO) expressed by normal and malignant myelomonocytic cells. The LF mAb (clone 4C5) recognizes lactoferrin stored within secondary granules of postmitotic granulocyte-committed cells. In this COMBI-IC Reagent antibody 8E6 is conjugated to FITC, antibody 4C5 is conjugated to Phycoerythrin (PE). The sensitivity of MPO-C2/LF mAb is determined by staining well-defined blood samples from representative donors with serial-fold mAb dilutions to obtain a titration curve that allows relating the mAb concentration to the percentage of stained cells and geometric MFI (mean fluorescence intensity). For this purpose, a mAb-concentration range is selected to include both the saturation point (i.e. the mAb dilution expected to bind all epitopes on the target cell) and the detection threshold (i.e. the mAb dilution expected to represent the least amount of mAb needed to detect an identical percentage of cells). In practice, 50  $\mu$ l of leukocytes containing  $10^7$  cells/ml are stained with 20  $\mu$ l mAb of various dilutions to obtain a titration curve and to identify the saturation point and detection threshold. The final concentration of the product is then adjusted to be at least 3-fold above the detection threshold. In addition and to control lot-to-lot variation, the given lot is compared and adjusted to fluorescence standards with defined intensity.

**Antibody Type**

Primary Antibody

**Clone Number**

8E6 and 4C5

**Storage**

This monoclonal antibody reagents contain optimal concentrations of affinity-purified antibody. For stability reasons this monoclonal antibody solution contains sodium azide. These reagents should be stored at 2-8°C (DO NOT FREEZE!) and protected from prolonged exposure to light. If a slight precipitation occurs upon storage, this should be removed by centrifugation. It will not affect the performance or the concentration of the product. Stability of the reagent: Please refer to the expiry date printed onto the vial. The use of the reagent after the expiration date is not recommended.

**Note**

For research use only

**Expiration Date**

12 months from date of receipt.

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