

Product Datasheet

FIX&PERM Cell Fixation and Permeabilization Kit (orb1972402)

Catalog Number orb1972402

Description FIX&PERM Cell Fixation and Permeabilization Kit

Tested Applications FC

Storage Storage: FIX&PERM Cell Fixation and Permeabilization Kit reagents should be stored and used at room temperature. Do not freeze. 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. If reagents are stored under any conditions other than those specified, the conditions must be verified by the user. Do not use reagents if a precipitate should form or discoloration occurs. If unexpected results are obtained which cannot be attributed to differences in laboratory procedures, please contact us

Note For research use only

Biorbyt Ltd.

7 Signet Court, Swann's Road,
Cambridge, CB5 8LA, United Kingdom
Email: info@biorbyt.com, support@biorbyt.com
Phone: [+44 \(0\) 1223 859-353](tel:+44(0)1223859353) | Fax: [+1 \(415\) 651-8558](tel:+1(415)6518558)

Biorbyt LLC.

68 TW Alexander Drive,
Durham, NC, 27713, United States
Email: info@biorbyt.com, support@biorbyt.com
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Application notes

Biological fluids (blood, bone marrow, and others) must be collected under sterile conditions. Anticoagulation with EDTA or heparin is recommended. The samples should be stored at room temperature until used. For optimal results, samples should be processed and analyzed within 24 hours. Samples with high numbers of non-viable cells might cause false results, such cases require determination of cell viability with e.g. propidium iodide. All biological samples have to be handled with caution. Always consider them as potentially infective. Use appropriate precautions such as gloves, lab-coat, etc. Fixation, permeabilization and staining procedure: For each sample to be analyzed add 50 µl of whole blood, bone marrow or mononuclear cell suspension in a 5ml tube Add 100 µl of Reagent A (Fixation Medium, stored and used at room temperature) Incubate for 15 minutes at room temperature Add 5ml phosphate buffered saline and centrifuge cells for 5 minutes at 300 g Remove supernatant and add 100 µl Reagent B (Permeabilization Medium) and 20 µl of the appropriate -MUBio monoclonal antibody conjugate Vortex at low speed for 1-2 seconds Incubate for 15 minutes at room temperature Wash cells with phosphate buffered saline as described above Remove supernatant and resuspend cells in sheath fluid for immediate analysis or resuspend cells in 0.5 ml 1.0 % formaldehyde and store them at 2-8°C in the dark. Analyze fixed cells within 24 hours. Comments: Special cases (diluted bone marrow samples, other samples containing low soluble protein) might benefit from replenishment with plasma components before the FIX&PERM treatment in order to create a milieu, which more closely resembles the situation in anti-coagulated blood. For that purpose addition of IgG preparations (e.g. Beriglobulin P, ZLB Behring, final concentration 10mg/ml) and human serum albumin (e.g. human albumin "Behring" 20% - infusion solution, final concentration 40mg/ml)

Hazard Information

For professional users only. Reagent A of FIX&PERM Cell Fixation and Permeabilization Kit contains formaldehyde and is labelled: Harmful. Formaldehyde is toxic, allergenic and a suspected carcinogen. Never pipette by mouth and avoid contact with eyes, skin and clothing. Proper handling procedures are recommended. As a main rule, persons under 18 years of age are not allowed to work with this product. Users must be carefully instructed in the proper working procedure, the dangerous properties of the product and the necessary safety instructions. Please refer to the Material Safety Data Sheet (MSDS) for additional information. Dispose product remainders according to local regulations.

Expiration Date

12 months from date of receipt.

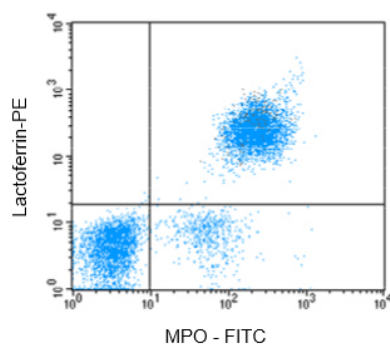
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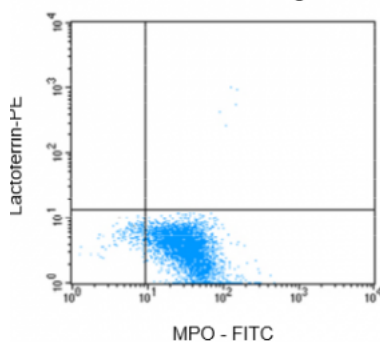
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Normal BM: Leukogate

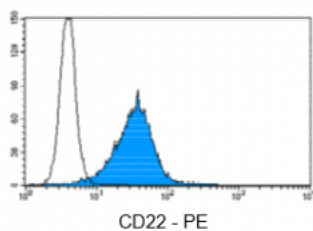


Flow cytometric analysis of normal bone marrow (BM) after fixation and permeabilization using orb1972402, followed by immunostaining for lactoferrin and MPO-C2.

Leukemic BM: Blastgate



Flow cytometric analysis of bone marrow (BM) from a leukemia patient after fixation and permeabilization using orb1972402, followed by immunostaining for lactoferrin and MPO-C2.



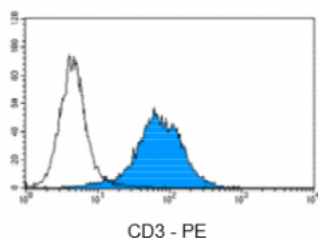
Immunostaining with CD22-PE conjugate of undifferentiated leukemia cells of B-ALL type.

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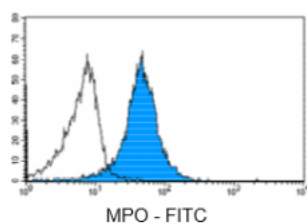
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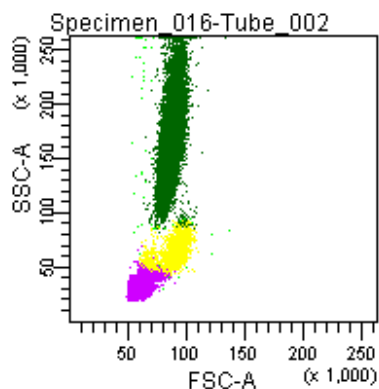
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Immunostaining with CD3-PE conjugate of surface CD3-negative undifferentiated leukemia cells of T-ALL type.



Immunostaining with anti MPO-FITC conjugate of undifferentiated leukemia cells of AML type.



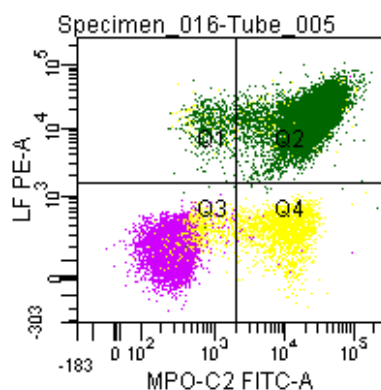
Forward and side scatter pattern of a normal blood sample treated with orb1972402.

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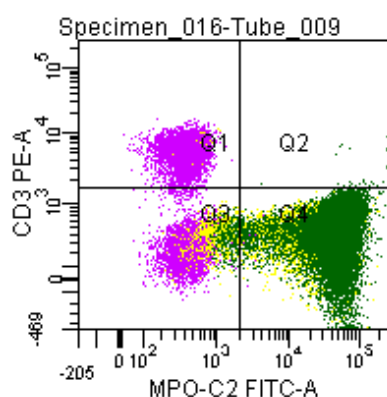
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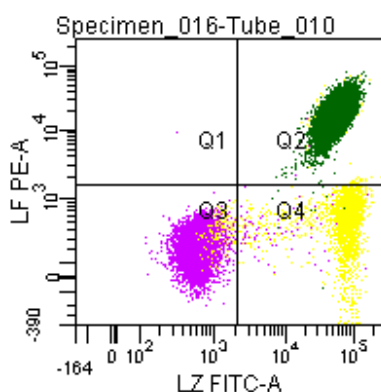
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Double labeling of a normal blood sample treated with orb1972402, and immunostained for Lactoferrin (PE) and MPO-C2 (FITC).



Double labeling of a normal blood sample treated with orb1972402, and immunostained for CD3 (PE) and MPO-C2 (FITC).



Double labeling of a normal blood sample treated with orb1972402, and immunostained for Lactoferrin (PE) and Lysozyme (FITC).

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