

ab186198

Flow Cytometry Lysing Solution

Instructions for Use

Lysing Procedures prior to Flow Cytometry for
Whole Blood or Marrow Samples.

This product is for research use only and is not
intended for diagnostic use.

Table of Contents

1. Introduction	3
2. Contents	4
3. Storage and Handling	4
4. Additional Materials Required	4
5. Samples	4
6. Lysing Protocol	5

1. Introduction

Abcam's Flow Cytometry Lysing Solution is a ready-to-use solution formulated for lysing erythrocytes following monoclonal antibody staining of whole blood. Treatment with this reagent simultaneously leads to the lysis of red blood cells and fixation of white cells. The morphological scatter characteristics of leukocytes remain intact. The Flow Cytometry Lysing Solution can be used with or without sample washing and is suitable for the analysis of normal and malignant leukocyte populations derived from various human biological samples (blood, bone marrow and others) using Flow Cytometry.

Flow cytometric analysis, with monoclonal antibodies, has so far been restricted to leukocyte populations, which had been separated from erythrocytes before staining and/or analysis. Whole blood staining methods allow for a rapid and accurate determination of cellular sub populations in non-separated biological samples. This not only time saving but reduces the probability of an unintended loss of distinct cellular populations due to the commonly used differential centrifugation procedures. With Abcam's Flow Cytometry Lysing Solution the analysis of whole blood by flow cytometry has become as easy and accurate as the analysis of separated cell populations.

2. Contents

Components	300 Tests
Flow Cytometry Lysing Solution	30 mL

3. Storage and Handling

Kits should be stored and used at room temperature. Do not freeze.

Do not use reagents if a precipitate forms or discoloration occurs.

4. Additional Materials Required

Monoclonal antibody stained whole blood

Centrifuge

5. Samples

- Biological fluids (blood, bone marrow and others)
Anticoagulation with EDTA is recommended.

6. Lysing Protocol

No-Wash Staining and Lysing Procedure

1. Following antibody staining of EDTA anti-coagulated whole blood add 100 μ L of Flow Cytometry Lysing Solution to each tube.
2. Incubate in the dark for 10 minutes at 4°C or room temperature.
3. Add 1 mL of distilled water and vortex.
4. Incubate at room temperature for 5-10 minutes
5. Analyze immediately or store samples at 2-8°C, in the dark, and analyze within 24 hours.

Wash Staining and Lysing Procedure

1. Following antibody staining of EDTA anti-coagulated whole blood add 100 μ L of Flow Cytometry Lysing Solution to each tube.
2. Incubate in the dark for 10 minutes at 4°C or room temperature.
3. Add 3-4 mL of distilled water and vortex.
4. Incubate at room temperature for 5-10 minutes
5. Centrifuge tubes for 5 minutes at 300g.
6. Aspirate supernatant and resuspend pellet in 0.3mL of sheath fluid.

7. Analyze immediately or store samples at 2-8°C, in the dark, and analyze within 24 hours.

For further technical questions please do not hesitate to contact us by email (technical@abcam.com) or phone (select “*contact us*” on www.abcam.com for the phone number for your region).

UK, EU and ROW

Email: technical@abcam.com | Tel: +44-(0)1223-696000

Austria

Email: wissenschaftlicherdienst@abcam.com | Tel: 019-288-259

France

Email: supportscientifique@abcam.com | Tel: 01-46-94-62-96

Germany

Email: wissenschaftlicherdienst@abcam.com | Tel: 030-896-779-154

Spain

Email: soportecientifico@abcam.com | Tel: 911-146-554

Switzerland

Email: technical@abcam.com

Tel (Deutsch): 0435-016-424 | Tel (Français): 0615-000-530

US and Latin America

Email: us.technical@abcam.com | Tel: 888-77-ABCAM (22226)

Canada

Email: ca.technical@abcam.com | Tel: 877-749-8807

China and Asia Pacific

Email: hk.technical@abcam.com | Tel: 400 921 0189 / +86 21 2070 0500

Japan

Email: technical@abcam.co.jp | Tel: +81-(0)3-6231-0940

www.abcam.com | www.abcam.cn | www.abcam.co.jp