

Direct Immunofluorescence Staining of Cells and Blood

This technique is applicable where the fluorochrome is directly linked to the primary antibody e.g. PE, FITC and Alexa Fluor® conjugates.

Note. Specific methodology for blood appears in [] brackets.

- 1. Prepare cells appropriately (see here 1). Adjust the cell suspension to a concentration of 1 × 10e6 cells/ml with PBS/BSA buffer (phosphate buffered saline pH 7.4 and 1% BSA). [Whole blood samples may be used undiluted unless the cell count is high e.g. as in leukemia. EDTA and heparin are preferred anti-coagulants].
- 2. Aliquot 100 µl of cell suspension [whole blood] into as many test tubes as required.
- 3. Add antibody at the recommended dilution (see specific datasheets). Mix well and incubate at room temperature for 30 minutes.
- 4. Wash cells with 2 ml of PBS/BSA, centrifuge at 400 g for 5 minutes and discard the resulting supernatant.

[To the blood suspension add freshly prepared red cell lysis buffer e.g. 2 ml of AbD Serotec's <u>Erythrolyse</u> and mix well. Incubate for 10 minutes at room temperature. Centrifuge at 400 g for 5 minutes and discard the supernatant].

Resuspend cells in 0.2 ml of PBS/BSA or with 0.2 ml of 0.5% paraformaldehyde in PBS/BSA if required.

Acquire data by flow cytometry. Appropriate standards should always be included e.g. an isotype-matched control sample.

Introduction to Flow Cytometry Home
Forward to: Indirect Immunofluorescence Staining of Cells and Blood
Back to: Preparation of Cells

1 of 1 5/29/13 11:37 AM