QIFIKIT®

For Quantitative Analysis of Indirect Immunofluorescence Staining in Flow Cytometry

Dako
An **Agilent Technologies** Company

Intended use of QIFIKIT® *

QIFIKIT® is intended for the determination of antibody-binding and antigen density per cell using flow cytometry and monoclonal antibodies. The kit contains sufficient reagents for 10 calibrations including set-up beads, calibration beads, and FITC conjugate. The measurement range is 1,000 to 1,000,000 monoclonal antibody molecules or antigenic sites per cell.

The kit is well suited for use in indirect immunofluorescence with any unconjugated mouse monoclonal antibody of IgG isotype available from Dako and other commercial or non-commercial sources. For evaluation of antigen density the antibody must be used at saturation.

Standardization

- Gives absolute rather than relative values
- Helps create “normal” antigen density values to be used as a reference value
- Enables comparisons between different laboratories and different periods of time
- Makes precise definitions of “positive” versus “negative” and “bright” versus “dim” cells possible

Flexibility

- Standards provide flexibility in instrument set-up and/or calibration
- Adapted to indirect immunofluorescence staining protocols
- Can be used with only primary mouse antibody
- Applicable to cell lines, isolated cells and whole blood samples
- Useful for instrument expressing MFI in linear values and in channel numbers

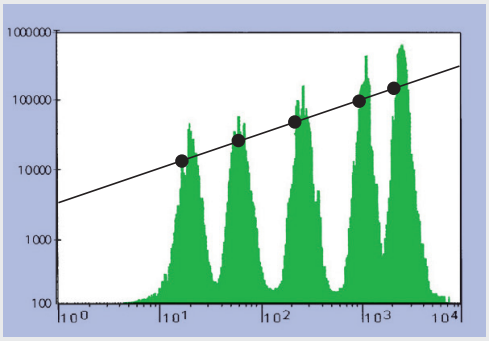

Figure 1 Calibration Beads are used for construction of the calibration curve.

KIT CONTENTS

Vial 1	**Set-Up Beads** Two populations of beads. Blank beads (A) and beads with a high number of Mab molecules. 1 ml
Vial 2	**Calibration Beads** Five populations of beads (B, C, D, E, and F) bearing different numbers of Mab molecules. 1 ml
Vial 3	**FITC Conjugate** F(ab')2 Fragment of FITC-Conjugated Goat Anti-Mouse Immunoglobulins (affinity-isolated). 0.2 ml

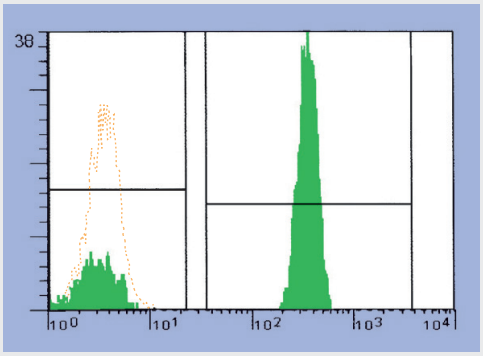

Figure 2 Quantitation of the CD4 antigen density on lymphocytes from whole blood samples using the QIFIKIT®. By interpolation on the calibration curve the CD4 antigen density is found to be 57,000 sites per cell.

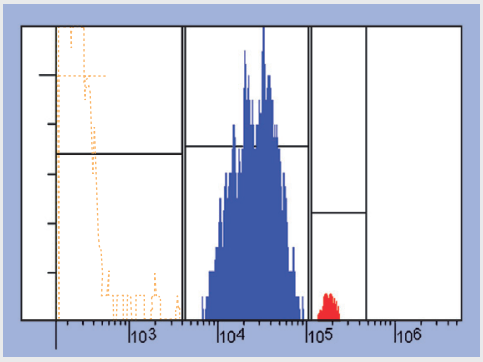

Figure 3 Determination of CD45 density on both blast cells and residual normal lymphocytes from a pre-8-ALL patient using the QIFIKIT® and labeling with Anti-CD45 Leucocyte Common Antigen, clone T29/33. The histogram shows a CD45 density of 200,000 sites per cell for the lymphocytes, which is in agreement with previous data (1) and 30,000 sites per cell for the leukemic population.

ORDERING INFORMATION

Product	Size	Code
QIFIKIT®	10 calibrations	K0078

Literature

1. Lavabre-Bertrand T, Duberray C, Brunet C, Poncelet P, Exbrayat C, Bourquard P, et al. Quantification of CD24 and CD45 antigens in parallel allows a precise determination of B-cell maturation stages: relevance for the study of B-cell neoplasias. Leukemia 1994;8:402-8.

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