Measurement of ZAP-70 Expression in CLL Using An Optimized Flow Cytometric Assay for ZAP-70 Protein Levels in Whole Blood Samples

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Abstract

Crespo et al (NEJM 348; 1764, 2003) published the first paper utilizing flow cytometry to ZAP-70 protein expression in the detection of T- and B-cell lymphomas and to illustrate the potential role of ZAP-70 in B-cell chronic lymphocytic lymphoma (B-CLL).

Methods

Intra-Laboratory Results: ZAP-70 Expression in CLL Specimens

Conclusions

- The correlation coefficient of ZAP-70 expression in 7 T cells and 8 B cells in PBMC is good (R² = 0.9893), demonstrating the reproducibility of the assay in different laboratories.
- The comparison of ZAP-70 expression in different laboratories shows similar results, indicating the robustness of the assay.
- The workflow consistency analysis demonstrates the reliability of the assay, confirming its reproducibility.
- These results suggest that the ZAP-70 flow cytometric assay is a reliable tool for the detection of ZAP-70 expression in B-CLL and other lymphoid malignancies.

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