Flow cytometric assays for CAR T cell manufacturing and patient monitoring, involving specific CAR detection reagents, stabilized pre-formulated cocktails, and automated data acquisition and analysis

Introduction

Phenotyping efforts require robust and reliable assays. Therefore, to streamline the assessment of CART cells during manufacturing and patient monitoring, we

Results

1. Flow cytometric assays for analysis of CAR T cells during cell manufacturing and immunomonitoring

2. CAR Detection Reagents

3. Evaluation of donor-dependent variations and automated Express Mode gating

4. Enumeration of immune cell subsets in liquid biopsies products

5. Assessment of transduction efficiency and stability of CAR T cells

6. Analysis of CART cell persistence and differentiation during immunomonitoring

7. Dried antibody cocktails for assay standardization and workflow simplification

8. Performance evaluation and stability testing of dried antibody cocktails

Conclusions

For CAR T cell therapy, proper phenotyping of specific CAR T cells is vital to ensure optimal handling and manufacturing conditions. This includes accurate and reliable assessment of CAR T cell population, ensuring successful transduction and stable CAR expression. By utilizing stabilized pre-formulated cocktails, dried antibody cocktails, and automated data acquisition, we have streamlined the monitoring process, enabling faster and more efficient CAR T cell manufacturing and patient monitoring.