

Patient ID SAMPLE	Patient Name PATIENT, TEST	Birth Date 1990-08-02	Sex U	Age 33
Order Number SAMPLE	Client Order Number SAMPLE	Ordering Physician SAMPLE	Report Notes Sample Report	
Account Information SAMPLE		Collected 01 Aug 2024 15:23		

CD4 RTE, Flow Cytometry

CD4 Absolute (cells/uL)

 255 cells/mcL


SDL
Reference Value
582–1630

CD4 RTE %

 0.0 % CD4 T cells


SDL
Reference Value
25.8–68.0

CD4 RTE Absolute

 0.0 cells/mcL


SDL
Reference Value
170.0–1007.0

Interpretation

Significantly decreased CD4 T cell count for age using an age-segregated reference range. The relative frequency of CD4 T cells compared to the total lymphocyte population is also decreased at 9%. Of the total CD4 T cells, 0% express the naive T cell marker, CD45RA and 98% express the CD45RO memory

1 SDL

marker. This pattern is extremely skewed for age and indicative of a leaky SCID phenotype. Of the total CD4+CD45RA+ T cells, 0% express the recent thymic emigrant marker CD31. This result is indicative of absent thymic function for age. Strongly recommend appropriate genetic evaluation for a T-B+NK+ SCID with features of Omenn syndrome. Also recommend testing to rule out maternal engraftment and establish autologous nature of T cells. Significantly decreased CD4 T cell count for age using an age-segregated reference range. The relative frequency of CD4 T cells compared to the total lymphocyte population is also decreased at 9%. Of the total CD4 T cells, 0% express the naive T cell marker, CD45RA and 98% express the CD45RO memory marker. This pattern is extremely skewed for age and indicative of a leaky SCID phenotype. Of the total CD4+CD45RA+ T cells, 0% express the recent thymic emigrant marker CD31. This result is indicative of absent thymic function for age. Strongly recommend appropriate genetic evaluation for a T-B+NK+ SCID with features of Omenn syndrome. Also recommend testing to rule out maternal engraftment and establish autologous nature of T cells.

Received: 02 Aug 2024 15:18

Reported: 02 Aug 2024 15:23

Laboratory Notes

- 1 Analyte Specific Reagent: This test was developed and its performance characteristics determined by Mayo Clinic. It has not been cleared or approved by the U.S. Food and Drug Administration.

Performing Site Legend

Code	Laboratory	Address	Lab Director	CLIA Certificate
SDL	Mayo Clinic Laboratories - Rochester Superior Drive	3050 Superior Drive NW, Rochester MN 55905	Nikola Baumann Ph.D.	24D1040592