MAYO CLINIC
Mayo Medical Laboratories

# Laboratory Service Report 1-800-533-1710

| Patient Name | Patient ID | Age | Gender | Order # |
|---|---|---|---|---|
| SAMPLEREPORT,CD4RT | SA00057310 | 12 | F | SA00057310 |
| **Ordering Phys** CLIENT,CLIENT | | | | **DOB** 06/10/2000 |
| **Client Order #** SA00057310 | **Account Information** | | | **Report Notes** |
| **Collected** 05/08/2013 00:00 | C7028846-DLMP Rochester<br>SDSC 2 - Client Support<br>Rochester, MN 55901 | | | |
| **Printed** 10/03/2013 15:38 | | | | |

| Test | Flag | Results | Unit | Reference Value | Perform Site* |
|---|---|---|---|---|---|
| **CD4 RTE, Flow Cytometry** | | | | | |
| **RECEIVED:** 05/09/2013 15:23 **REPORTED:** 10/03/2013 12:54 | | | | | |
| CD4 Absolute (cells/uL) | L | 255 | cells/mcL | 582-1630 | MCR |
| CD4 RTE % | L | 0.0 | % CD4 T cells | 25.8-68.0 | MCR |
| CD4 RTE Absolute | L | 0.0 | cells/mcL | 170.0-1007.0 | MCR |
| Interpretation | | | | | MCR |

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 ttoal 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. 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:

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|---|---|---|
| MCR | Mayo Clinic Laboratories - Rochester Main Campus<br>200 First St SW Rochester, MN 55905 | Lab Director: Franklin R. Cockerill, III, M.D. |



* Report times for Mayo performed tests are CST/CDT